



COLLEGE OF COMPUTER AND INFORMATION SCIENCE

Academic Year 2022 – 2023

CS PRACTICUM

Submitted by:
Charmaine Eunice I. RABANO

Submitted to:
Jonalyn G. Ebron

Submitted to the Faculty of Mapúa Malayan Colleges Laguna
In Partial Fulfillment of the Requirements for the degree of

Bachelor of Science in Computer Science

Overview of the Practicum Engagement

For this Practicum engagement, the student chose to take the learning path track. As written on the Practicum acceptance form, the start date is March 30, 2023, and the end date is May 24, 2023. The student took online courses via LinkedIn Learning which are equivalent to 324 total credit hours. This includes the required learning modules and the specialization learning modules. The required learning modules include Design Thinking, Project Management, and Workplace Management. Meanwhile, the specialization learning modules include User Experience, Web Development, and Mobile Application Development. Aside from that, she also took the Metacrafters modules which has a total of 57 hours. This includes one JavaScript course and two Solidity courses.

The required learning modules is about the soft skills that she could have gained if she were to have an on-the-job training with a company. The first module is Design Thinking, which is about creativity and generating creative ideas, turning ideas into innovations, problem solving with human empathy, and making better decisions through critical thinking. The second module is Project Management, which discussed project management lifecycles with a focus on agile methodologies. The third module is Workplace Management, which is about communication skills, time management, business communication etiquettes, and working in a remote or hybrid setup.

Meanwhile, the specialization learning modules is focused on the technical skills that she could have learned when working with a team in a company. The first module is User Experience, where she learned about the process of UX design and the tools that can be used in UX design. The second module is Web Development, where she learned about different languages and tools in web development. This includes full-stack development using React and Node.js, full-stack development using Vue.js and Node.js, and Django web development. The third module is Mobile Application Development, where she learned how to develop cross-platform apps using React Native and iOS apps using Swift.

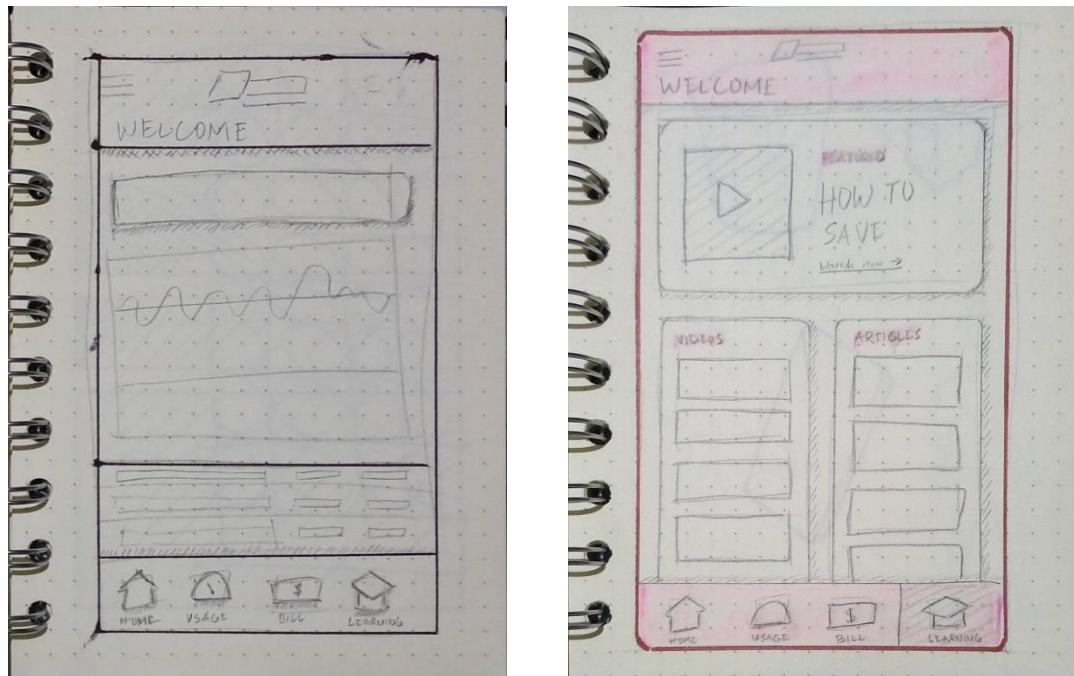
The Metacrafters modules, on the other hand, exposed the student on an in-demand skill (web3 development) and helped her practice her presentation skills with the required code walkthroughs. First, she took the JS PROOF: Beginner Course which is about the basics of JavaScript. After that, she took two Solidity courses ETH PROOF: Beginner EVM Course and ETH + AVAX PROOF: Intermediate EVM Course. The beginner course introduced web3 development and Solidity smart contracts. The intermediate course is a deep dive into Solidity and an introduction to the Avalanche network.

Presentation of Output

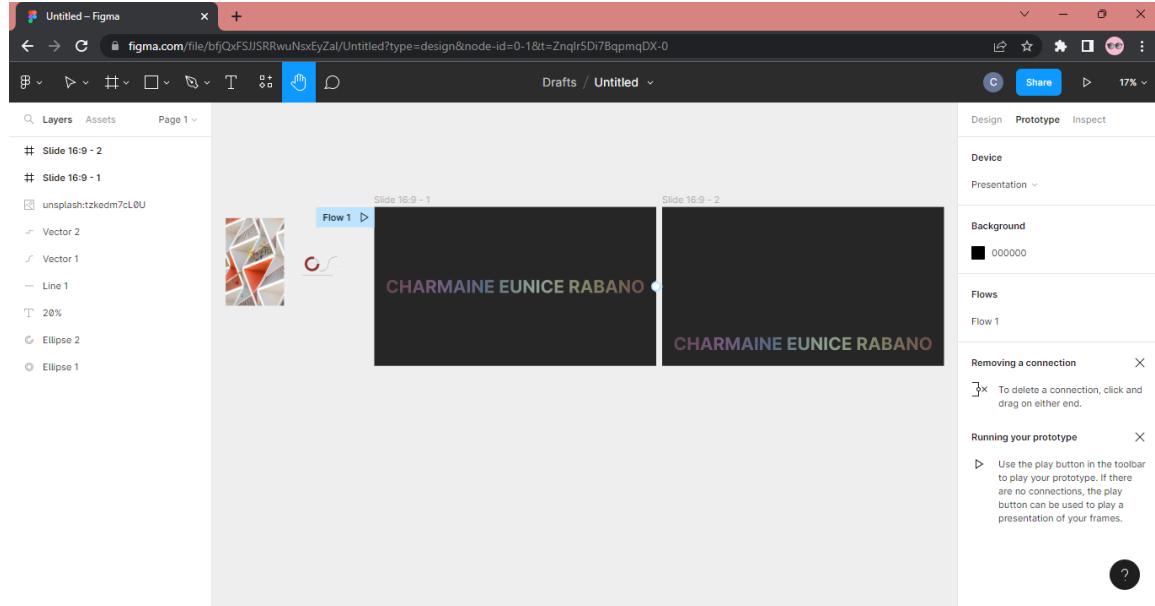
This section will showcase the tasks that the student did in some of the online courses she took.

User Experience

In the User Experience module, there was a course called Sketching for UX Designers where she learned some techniques on how to sketch the user interfaces and storyboards by hand. This is a useful skill when brainstorming or planning the UI/UX of an app. Here are the sketches she did:

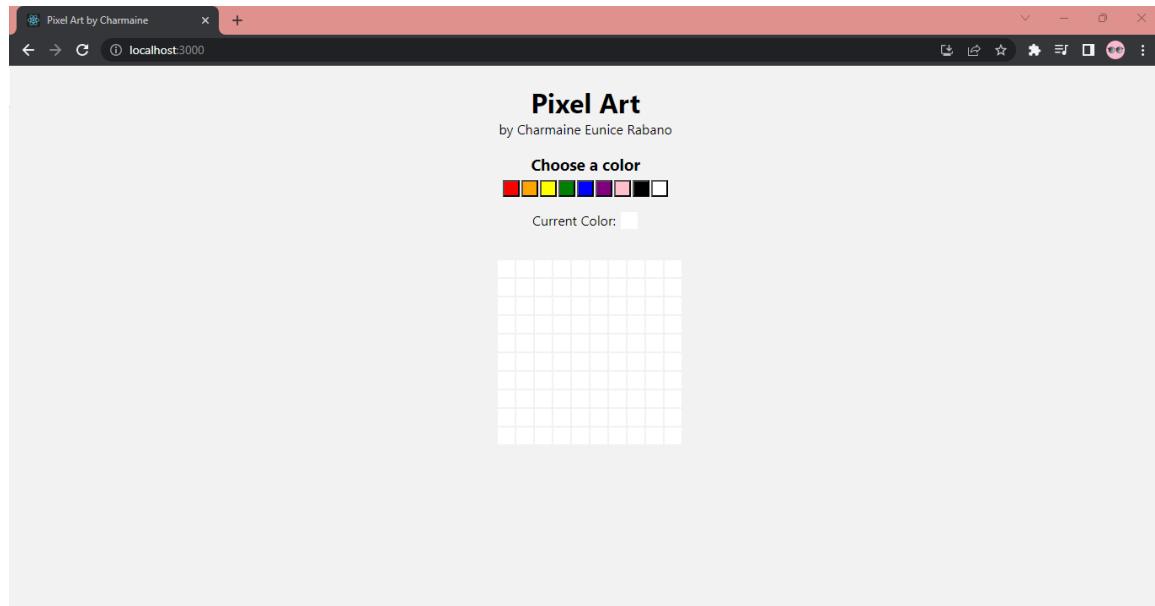


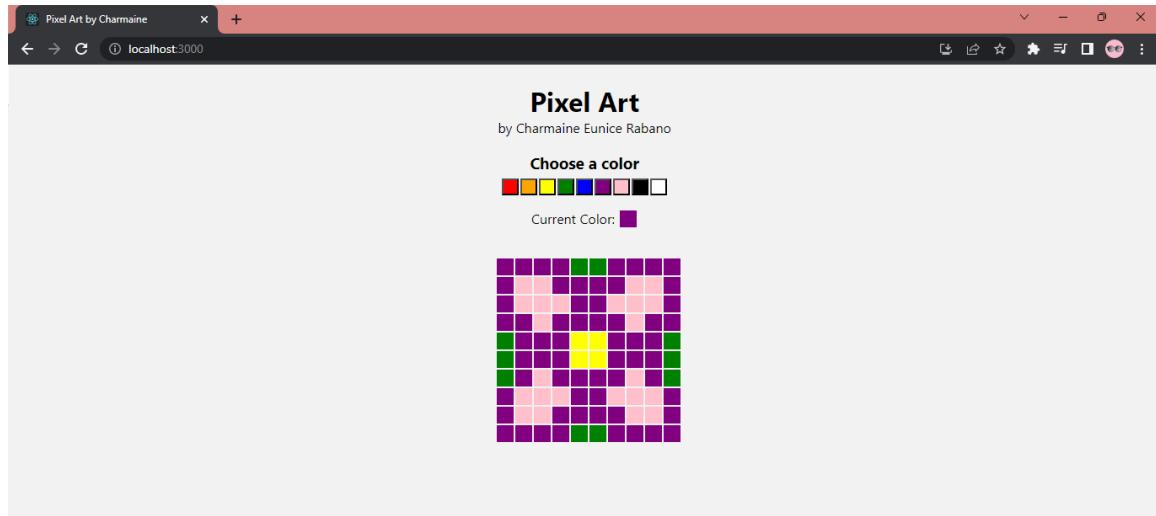
There was also a course named Figma for UX Design which discussed how to use Figma in UI/UX. Even though she is already familiar with Figma, she still learned new things like the smart animate feature for prototyping. Here is a screenshot of when she tried this feature in Figma:



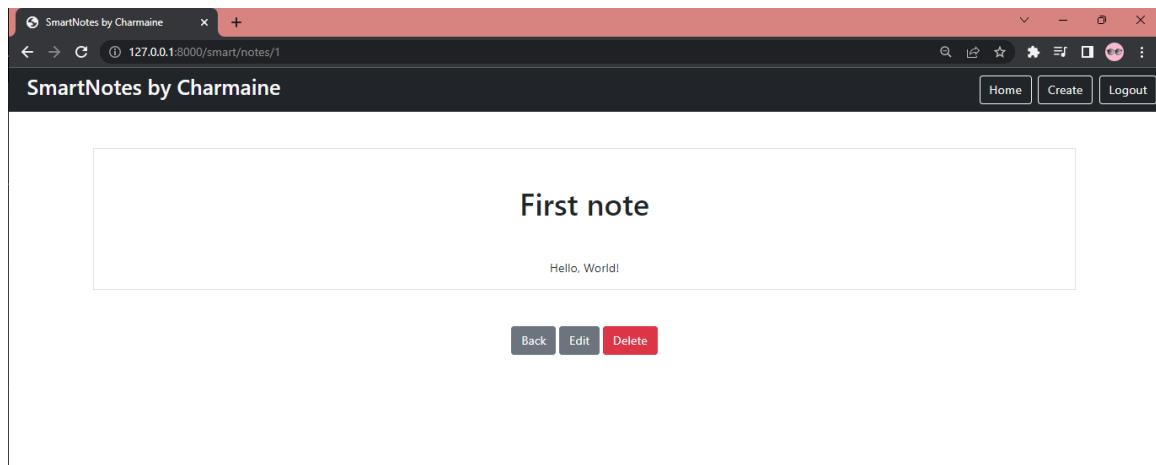
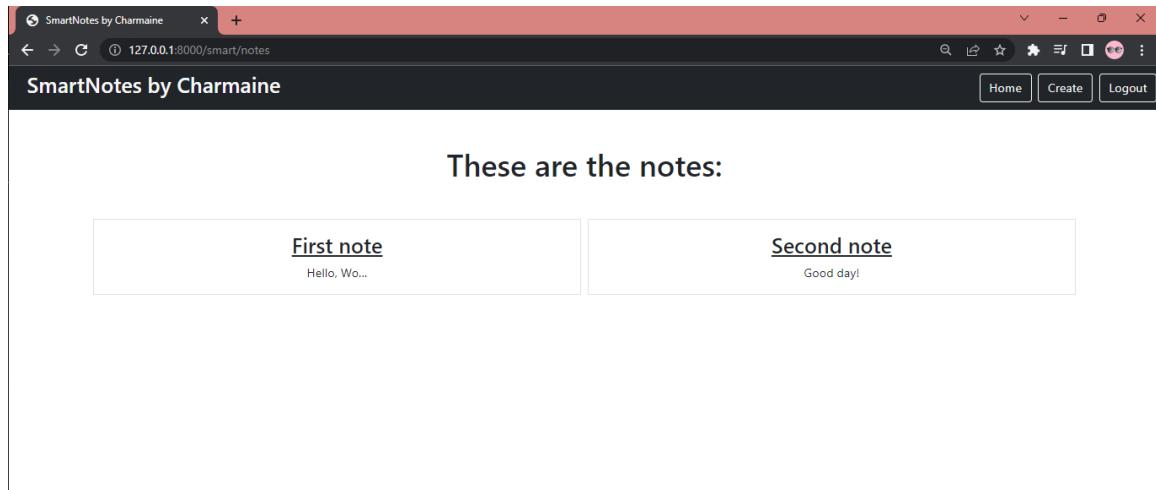
Web Development

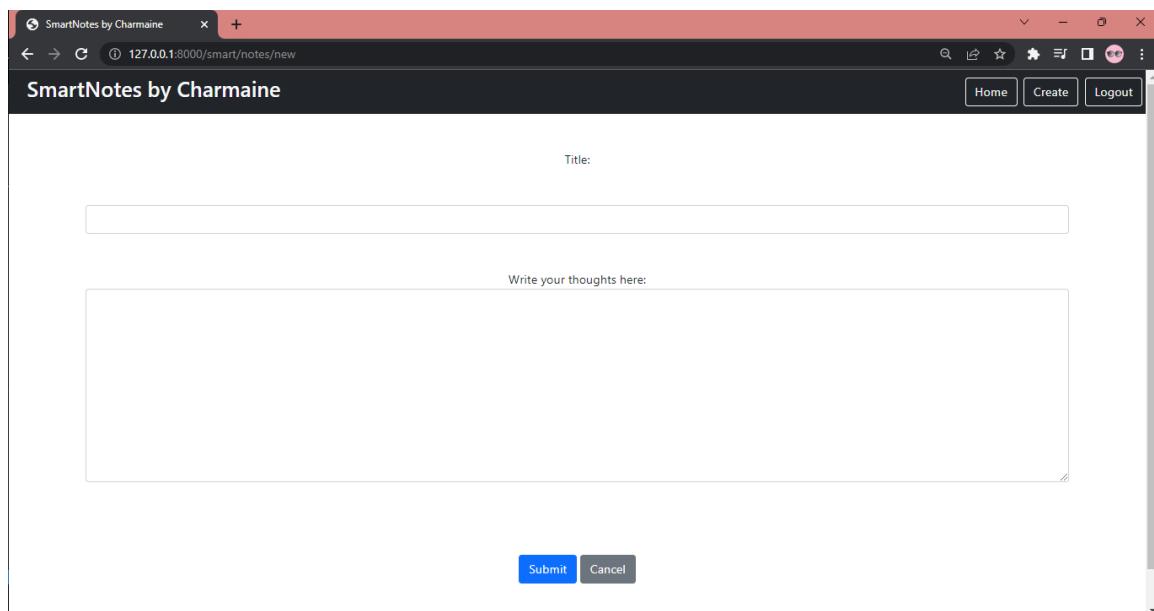
In the React.js Code Challenges course, the student did the Pixel Art challenge. In this challenge, the instructor gave a starting React code and she needed to complete the functionality of the pixel art app using Context API. She also customized and personalized her solution. Here is the app she created for this challenge:





In the Django Essential Training course, she followed through with creating the SmartNotes Django app. It is a web app that allows users to sign up, log in and log out. Once logged in, they can create notes, and view, edit and delete created notes. Here is the SmartNotes app:

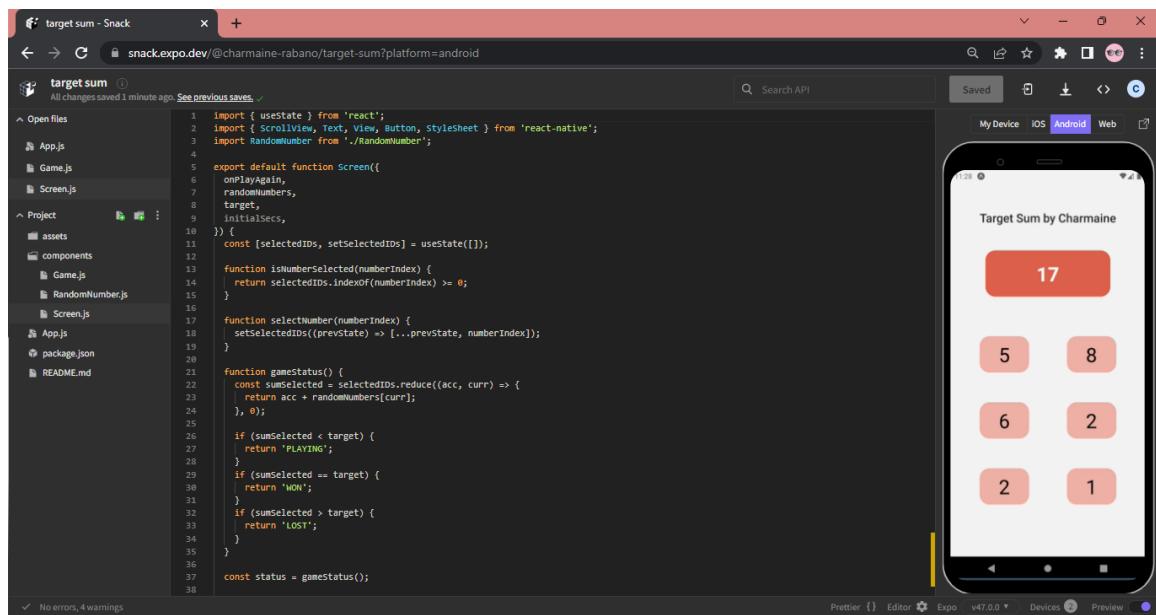


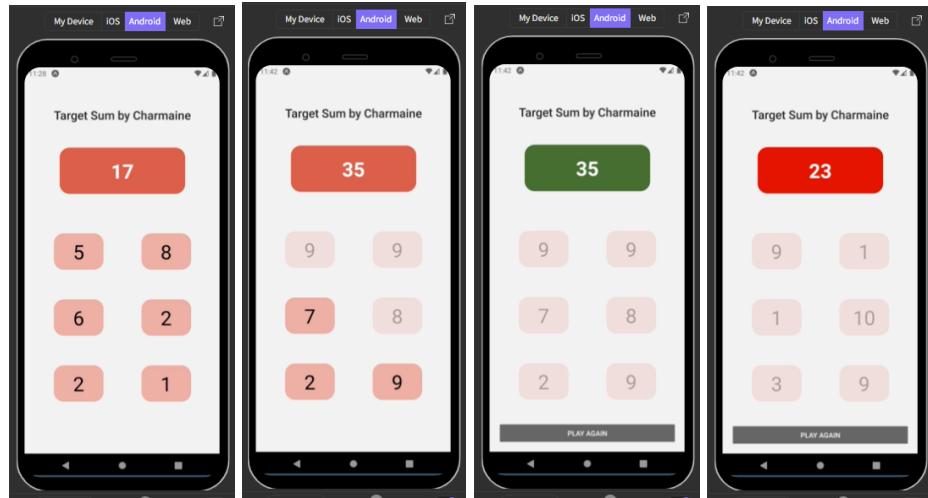


Mobile Application Development

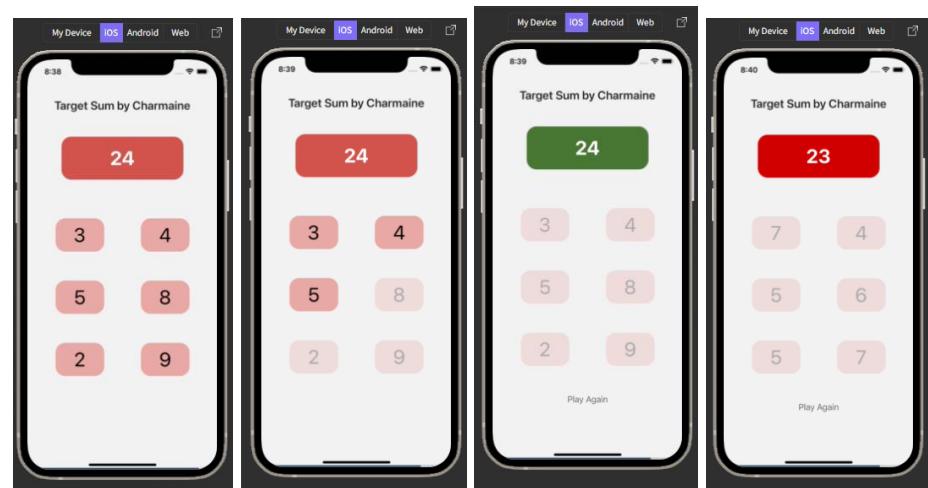
In the Mobile Application Development module, she followed through with the React Native Essential Training course in building a simple game app using React Native. The game is called Target Sum and she utilized the Expo Snack online IDE where the app can be viewed in Android, in iOS, and in a physical device. She also personalized the app by improving the design from what was shown in the course.

Here is a screenshot of the Expo Snack online IDE, with a preview of her app in Android:

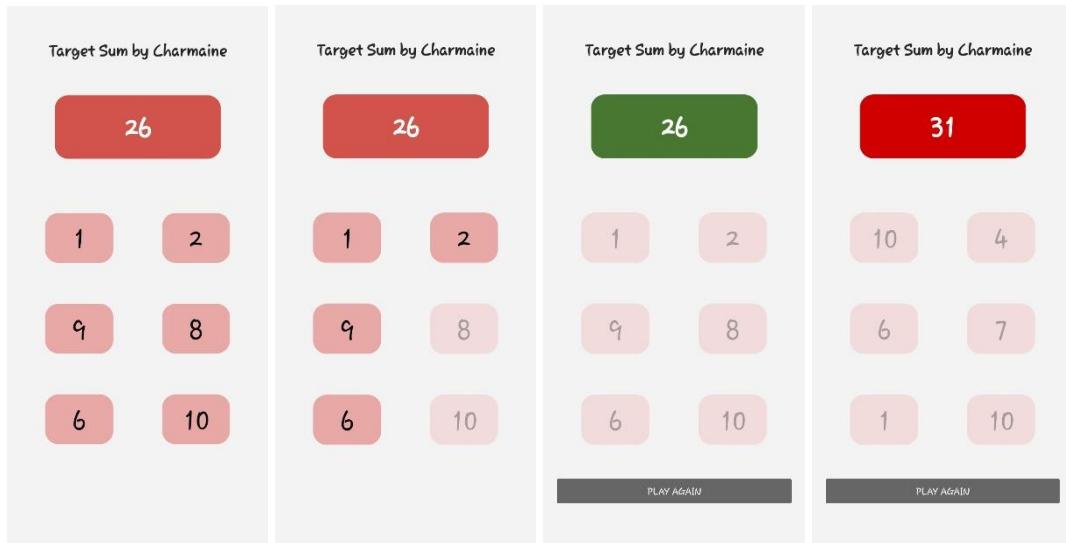




Here is the preview of her app in iOS:

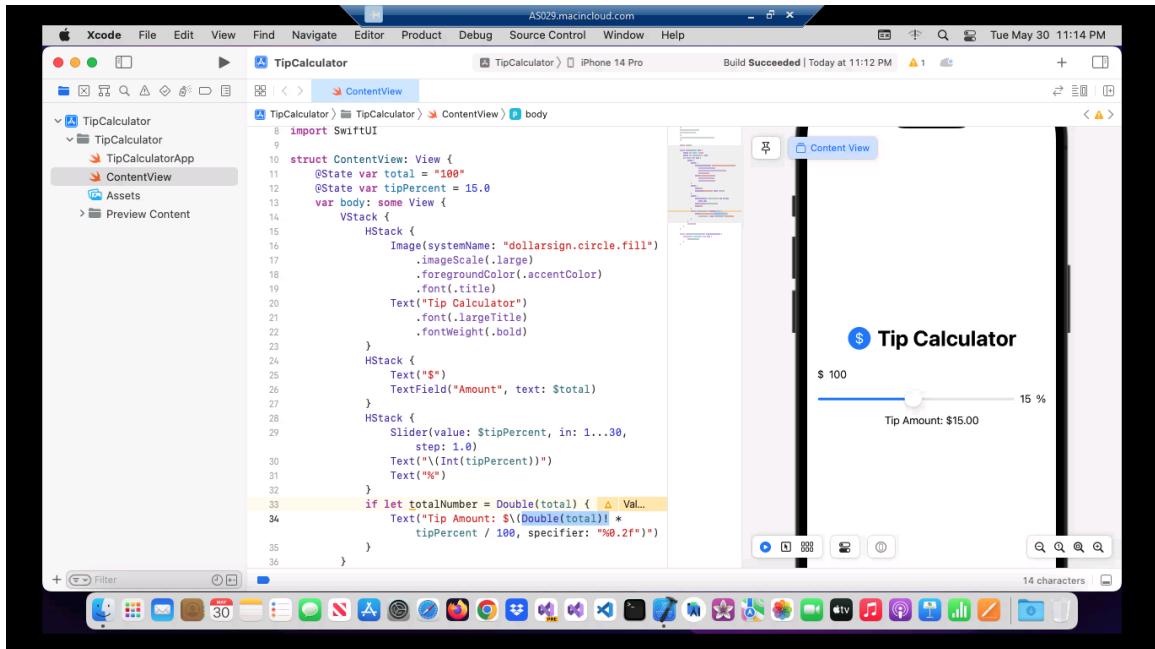


Here is the app in her physical Android device (the phone's font took over):

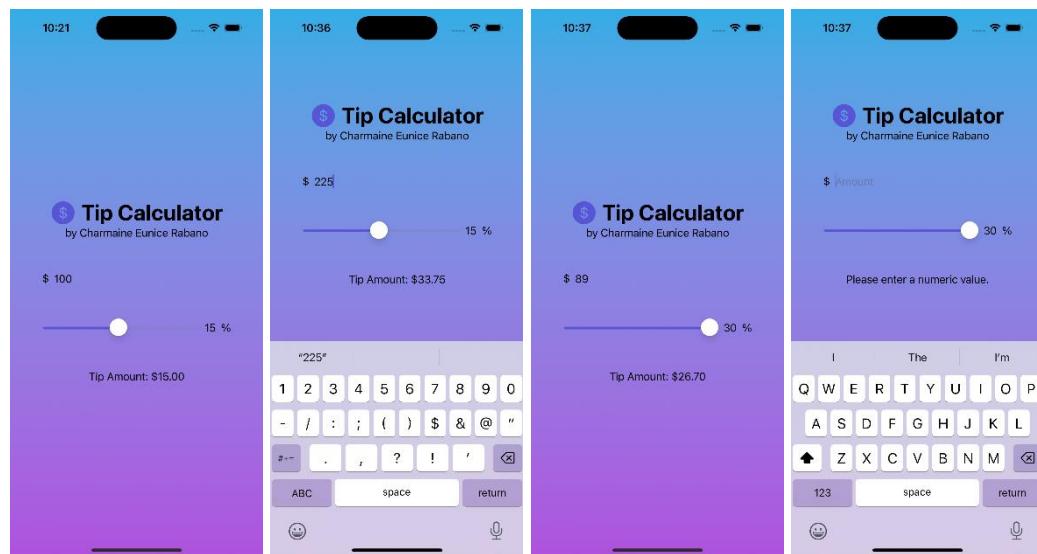


She also followed through with the Building Your First iOS App course in building a tip calculator app using Swift. Since the student only has a Windows laptop and iOS apps can only be built using a mac, she used the MacinCloud platform which offers on-demand Mac servers for app development.

Here is a screenshot of the MacinCloud platform while she was using Xcode to develop the tip calculator app:



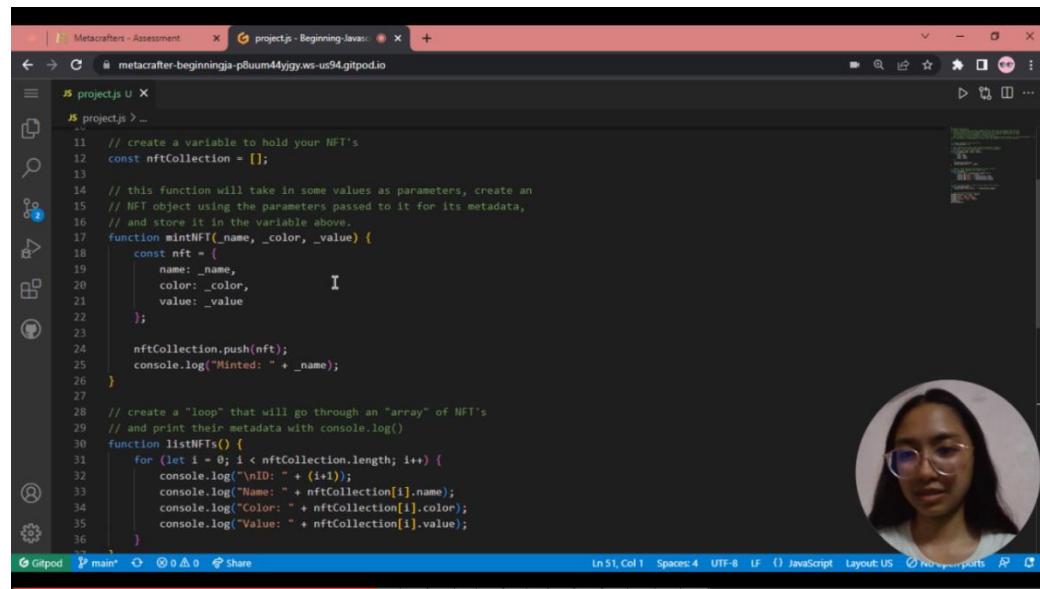
Here is the tip calculator iOS app developed (she also personalized it from what was demonstrated in the course):



Metacrafters

The Metacrafters courses have some projects that is needed to be submitted, which were checked by their peer mentor. Each project that the student submitted required her to take a video with a code walkthrough of her solution. The project files were also uploaded to GitHub.

For the JS PROOF: Beginner Course project, she created a simple JavaScript code that applies the concepts that were taught in the course. Here is a screenshot of her code walkthrough:



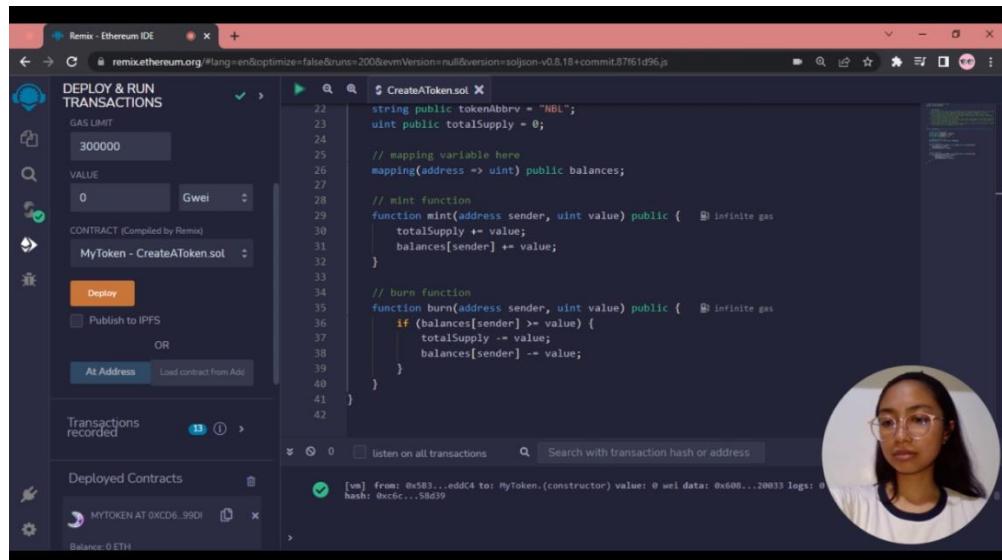
```
// create a variable to hold your NFT's
const nftCollection = [];

// this function will take in some values as parameters, create an
// NFT object using the parameters passed to it for its metadata,
// and store it in the variable above.
function mintNFT(_name, _color, _value) {
    const nft = {
        name: _name,
        color: _color,
        value: _value
    };

    nftCollection.push(nft);
    console.log("Minted: " + _name);
}

// create a "loop" that will go through an "array" of NFT's
// and print their metadata with console.log()
function listNFTs() {
    for (let i = 0; i < nftCollection.length; i++) {
        console.log("\nID: " + (i+1));
        console.log("Name: " + nftCollection[i].name);
        console.log("Color: " + nftCollection[i].color);
        console.log("Value: " + nftCollection[i].value);
    }
}
```

For the ETH PROOF: Beginner EVM Course project, she created a simple Solidity smart contract using Remix, an Ethereum IDE. This contract is made to be deployed to the Ethereum blockchain and imitates the creation of a token. Here is the project:



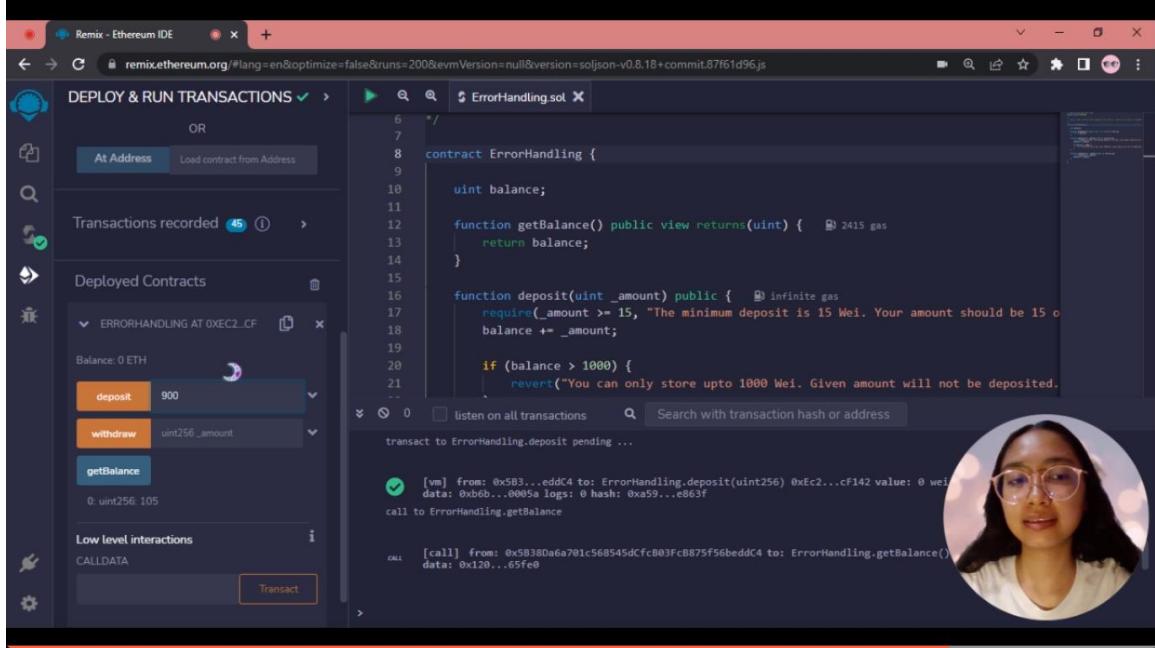
```
string public tokenAbbrv = "NBL";
uint public totalSupply = 0;

// mapping variable here
mapping(address => uint) public balances;

// mint function
function mint(address sender, uint value) public {
    infinite gas
    totalSupply += value;
    balances[sender] += value;
}

// burn function
function burn(address sender, uint value) public {
    infinite gas
    if (balances[sender] >= value) {
        totalSupply -= value;
        balances[sender] -= value;
    }
}
```

In the ETH + AVAX PROOF: Intermediate EVM Course, there were projects for each module. For module 1, she created a smart contract that implements error handling as it was discussed in the module. Here is the module 1 project:

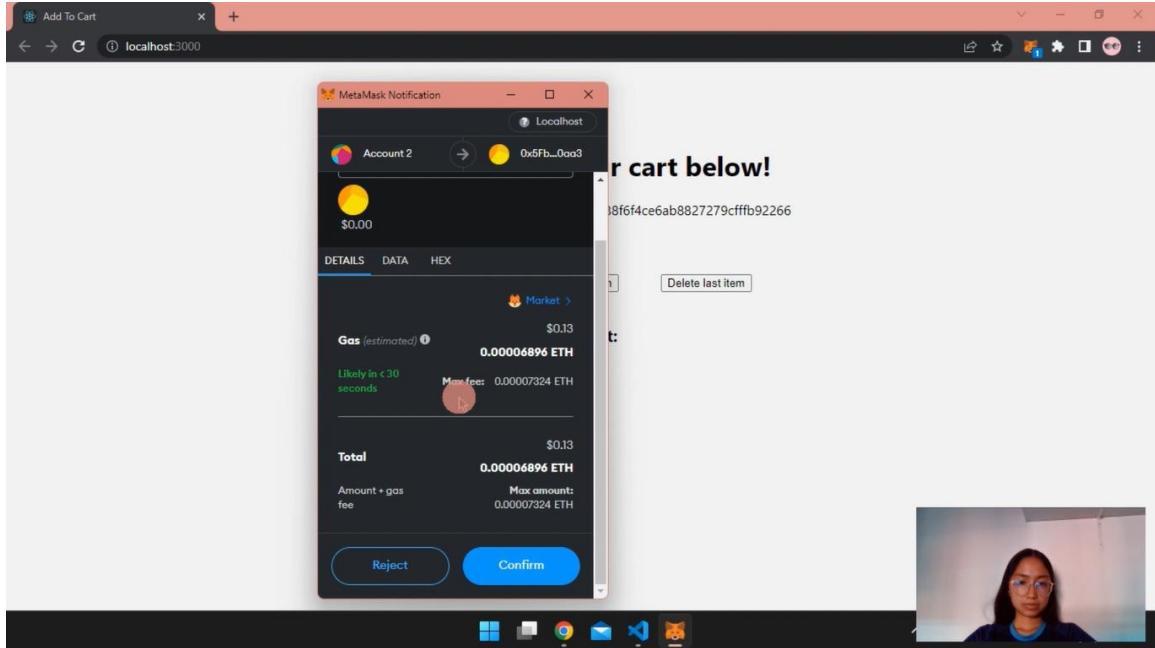


```

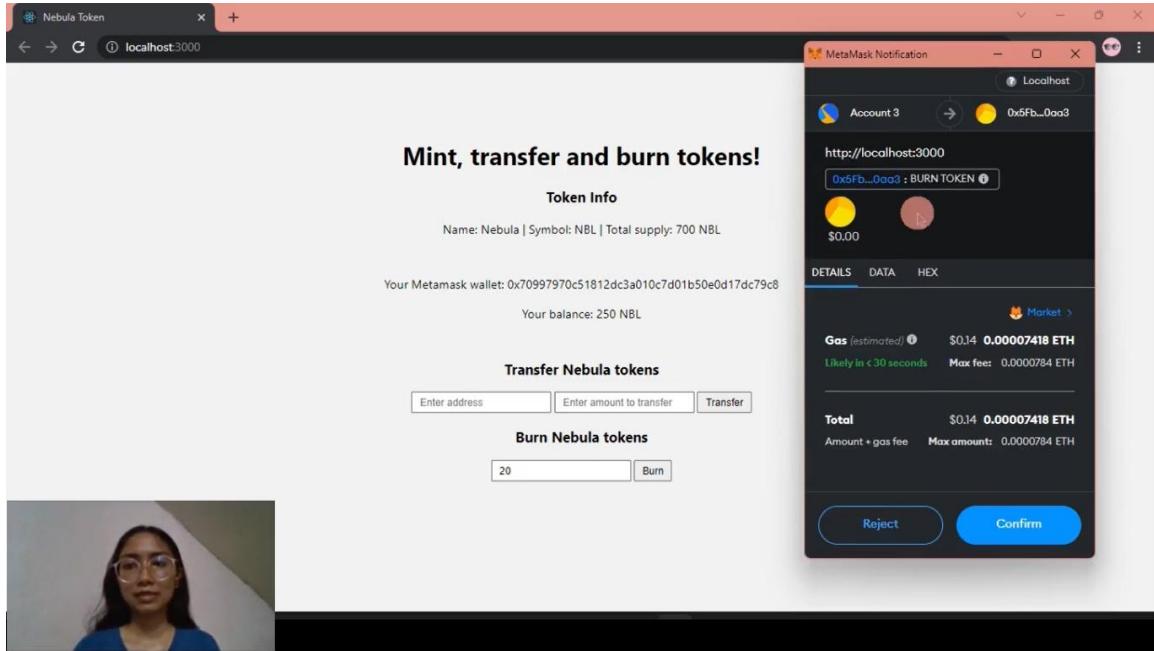
DEPLOY & RUN TRANSACTIONS ✓ >
OR
At Address Load contract from Address
Transactions recorded 45 ⓘ
Deployed Contracts
ERRORHANDLING AT 0xEc2...CF
Balance: 0 ETH
deposit 900
withdraw uint256 _amount
getBalance
0: uint256: 105
Low level interactions
CALLDATA
Transact
ErrorHandling.sol
*/
contract ErrorHandling {
    uint balance;
    function getBalance() public view returns(uint) { 2415 gas
        return balance;
    }
    function deposit(uint _amount) public { infinite gas
        require(_amount >= 15, "The minimum deposit is 15 Wei. Your amount should be 15 or more");
        balance += _amount;
    }
    if (balance > 1000) {
        revert("You can only store upto 1000 Wei. Given amount will not be deposited.");
    }
}

```

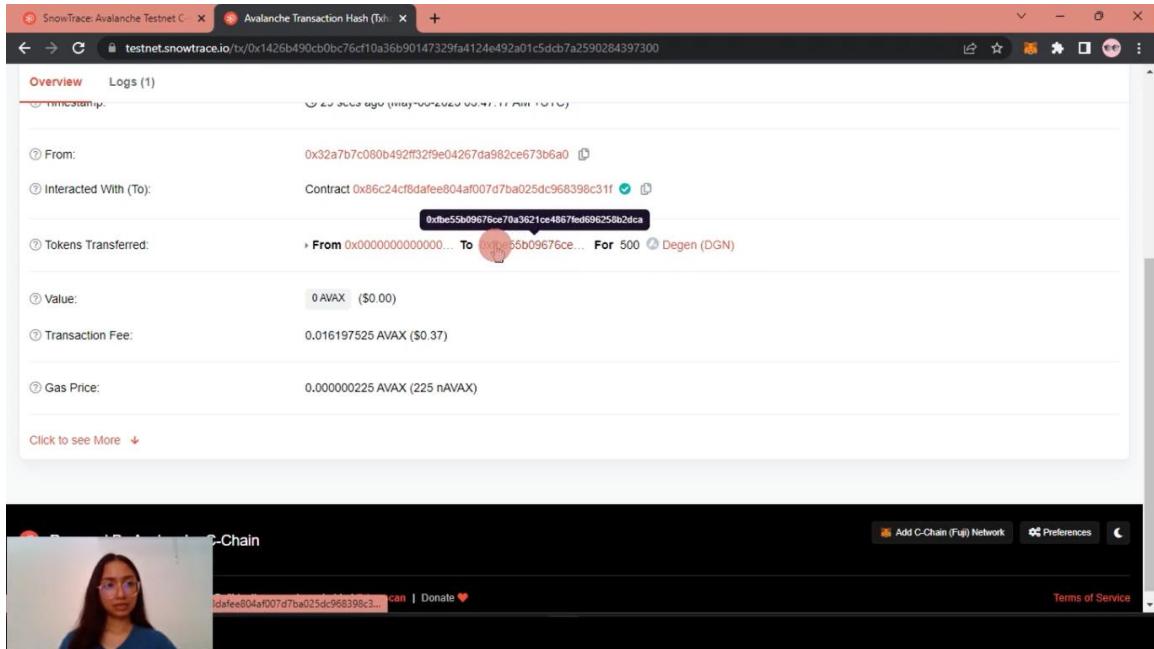
For module 2, she created a Solidity smart contract that is integrated to a React frontend and requires a Metamask wallet. It is a simple program that has an “add to cart” function where the cart is stored in the Ethereum blockchain. Here is the module 2 project:



For module 3, she created her own actual token that is derived from the ERC20 token. It also has a frontend to allow users to access functionalities like transfer and burn tokens. Here is the module 3 project:



For module 4, she created another ERC20 token that follows the specified requirements and is designed to be deployed on the Avalanche blockchain. She deployed it to the Fuji test network and viewed the record of transactions on SnowTrace. Here is the module 4 project:



Certificates

 <p>LEARNING PATH COMPLETION</p> <p>Certificate of Completion Congratulations, Charmaine Eunice Rabano</p> <p>Develop Your Creative Thinking and Innovation Skills</p> <p>Learning Path completed on Apr 05, 2023 at 09:35AM UTC • 6 hours 54 min</p> <p>By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.</p> <p>Top skills covered Creativity and Innovation, Business Innovation</p> <p> Head of Content Strategy, Learning</p> <p>LinkedIn Learning 1000 W Maude Ave Sunnyvale, CA 94085</p> <p>Certificate ID: AFD55ec_KUIG4PusuTx5Qd.jzl</p>	 <p>COURSE COMPLETION</p> <p>LinkedIn LEARNING Certificate of Completion Congratulations, Charmaine Eunice Rabano</p> <p>Learning Design Thinking: Lead Change in Your Organization</p> <p>Course completed on Apr 05, 2023 at 02:15PM UTC • 2 hours 8 min</p> <p>By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.</p> <p> Head of Content Strategy, Learning</p> <p>LinkedIn Learning 1000 W Maude Ave Sunnyvale, CA 94085</p> <p>Certificate ID: A1DyjnyH1_9jnf-c-iQNg4tp</p>
 <p>LEARNING PATH COMPLETION</p> <p>Certificate of Completion Congratulations, Charmaine Eunice Rabano</p> <p>Develop Critical Thinking, Decision-Making, and Problem-Solving Skills</p> <p>Learning Path completed on Apr 06, 2023 at 12:57PM UTC • 4 hours 29 min</p> <p>By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.</p> <p>Top skills covered Problem Solving, Critical Thinking, Decision-Making</p> <p> Head of Content Strategy, Learning</p> <p>LinkedIn Learning 1000 W Maude Ave Sunnyvale, CA 94085</p> <p>Certificate ID: AcbyAQBF1EH-eSFqHPJWKF</p>	 <p>COURSE COMPLETION</p> <p>LinkedIn LEARNING Certificate of Completion Congratulations, Charmaine Eunice Rabano</p> <p>Project Management Foundations</p> <p>Course completed on Apr 10, 2023 at 11:37PM UTC • 3 hours 32 min</p> <p>By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.</p> <p> Head of Content Strategy, Learning</p> <p>LinkedIn Learning 1000 W Maude Ave Sunnyvale, CA 94085</p> <p>Certificate ID: Ac407SM0hrGeJ3t0waHtqTCK22JN</p>
 <p>LEARNING PATH COMPLETION</p> <p>Certificate of Completion Congratulations, Charmaine Eunice Rabano</p> <p>Getting Started as an Agile Project Manager</p> <p>Learning Path completed on Apr 12, 2023 at 03:49AM UTC • 10 hours 34 min</p> <p>By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.</p> <p>Top skills covered Project Management, Microsoft Project, Agile Project Management</p> <p> Head of Content Strategy, Learning</p> <p>LinkedIn Learning 1000 W Maude Ave Sunnyvale, CA 94085</p> <p>Certificate ID: ATQnFdIBAOcnObDcQCrnYE_6n</p>	 <p>LEARNING PATH COMPLETION</p> <p>LinkedIn LEARNING Certificate of Completion Congratulations, Charmaine Eunice Rabano</p> <p>Develop Your Communication Skills and Interpersonal Influence</p> <p>Learning Path completed on Apr 12, 2023 at 03:15PM UTC • 5 hours 10 min</p> <p>By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.</p> <p>Top skills covered Communication, Interpersonal Skills, Interpersonal Communication</p> <p> Head of Content Strategy, Learning</p> <p>LinkedIn Learning 1000 W Maude Ave Sunnyvale, CA 94085</p> <p>Certificate ID: AT...esp2gDmLJUjeCJ-2iODK9m</p>



 LEARNING PATH COMPLETION

Certificate of Completion
Congratulations, Charmaine Eunice Rabano

Exploring a Career in User Experience Design
Learning Path completed on May 11, 2023 at 06:48AM UTC • 8 hours 44 min

By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.

Top skills covered
User Experience (UX), User Experience Design (UED)

 Head of Content Strategy, Learning

LinkedIn Learning
1000 W Maude Ave
Sunnyvale, CA 94085

Certificate ID: AQ17wqJavR0iC0X9paHgk4eo3

 LEARNING PATH COMPLETION

Certificate of Completion
Congratulations, Charmaine Eunice Rabano

Improve Your UX Design Skills
Learning Path completed on May 11, 2023 at 11:21AM UTC • 6 hours 50 min

By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.

Top skills covered
User Experience (UX), User Experience Design (UED)

 Head of Content Strategy, Learning

LinkedIn Learning
1000 W Maude Ave
Sunnyvale, CA 94085

Certificate ID: A9c5082x8D6Wx7rJhyQZTrQFu0

 LEARNING PATH COMPLETION

Certificate of Completion
Congratulations, Charmaine Eunice Rabano

Advance Your Skills in User Experience Design
Learning Path completed on May 16, 2023 at 12:40AM UTC • 14 hours 22 min

By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.

Top skills covered
UX Research, User Experience (UX)

 Head of Content Strategy, Learning

LinkedIn Learning
1000 W Maude Ave
Sunnyvale, CA 94085

Certificate ID: AU5eqNID0BjguT13QUaBwKQY9IC

 LEARNING PATH COMPLETION

Certificate of Completion
Congratulations, Charmaine Eunice Rabano

Become a Full-Stack Web Developer
Learning Path completed on May 05, 2023 at 08:48AM UTC • 28 hours 43 min

By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.

Top skills covered
Web Development, Full-Stack Development

 Head of Content Strategy, Learning

LinkedIn Learning
1000 W Maude Ave
Sunnyvale, CA 94085

Certificate ID: AUhXH-QdRhb-KptBeirvVz6-p5r

 LEARNING PATH COMPLETION

Certificate of Completion
Congratulations, Charmaine Eunice Rabano

Improve Your React Skills
Learning Path completed on May 17, 2023 at 06:23AM UTC • 20 hours 28 min

By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.

Top skills covered
Web Development, React.js, Web Applications

 Head of Content Strategy, Learning

LinkedIn Learning
1000 W Maude Ave
Sunnyvale, CA 94085

Certificate ID: ABB8k4qSFQo_Zmifg-LDWyvoiQ

 LEARNING PATH COMPLETION

Certificate of Completion
Congratulations, Charmaine Eunice Rabano

Explore Web Development with Vue.js
Learning Path completed on May 18, 2023 at 04:59AM UTC • 12 hours 53 min

By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.

Top skills covered
Web Development, Vue.js

 Head of Content Strategy, Learning

LinkedIn Learning
1000 W Maude Ave
Sunnyvale, CA 94085

Certificate ID: AWTKTeruZ-zENtK3sanJCX3m



Certificate of Completion
Congratulations, Charmaine Eunice Rabano

Become a Django Developer
Learning Path completed on May 18, 2023 at 11:26AM UTC • 8 hours 45 min

By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.

Top skills covered
Django


Head of Content Strategy, Learning

LinkedIn Learning
1000 W Maude Ave
Sunnyvale, CA 94085

Certificate ID: Acf1EgPswWlJUICnRmO-AhuDP



Certificate of Completion
Congratulations, Charmaine Eunice Rabano

Become a React Native Developer
Learning Path completed on May 10, 2023 at 07:13AM UTC • 11 hours 1 min

By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.

Top skills covered
React Native, Mobile Application Development, Cross-platform Development


Head of Content Strategy, Learning

LinkedIn Learning
1000 W Maude Ave
Sunnyvale, CA 94085

Certificate ID: AVIER2HFS00wXwkbtaRuB18u



Certificate of Completion
Congratulations, Charmaine Eunice Rabano

Get Started with iOS App Development
Learning Path completed on May 19, 2023 at 12:52PM UTC • 8 hours 39 min

By continuing to learn, you have expanded your perspective, sharpened your skills, and made yourself even more in demand.

Top skills covered
iOS Development


Head of Content Strategy, Learning

LinkedIn Learning
1000 W Maude Ave
Sunnyvale, CA 94085

Certificate ID: AZtib4BPjHE3HLvZWEGrP33yR



JS PROOF:
Beginner Course

Completed 3/3 modules

Proven skills

- Basics of Functions
- Basics of Loops



ETH PROOF:
Beginner EVM Course

Completed 3/3 modules

Proven skills

- How to read smart contracts
- How to write smart solidity contracts
- Testing solidity contracts



ETH PROOF:
Intermediate Course

Completed 3/3 modules

Proven skills

- Use fallback and payable functions
- Create abstract contracts
- Extend ERC20 contracts



ETH + AVAX PROOF:
Intermediate Course

Completed 4/4 modules

Proven skills

- Identify key use cases for the C, P, and X-chains
- Build Avalanche smart contracts on the C-Chain
- Create an ERC20 token and deploy it on the Avalanche network

Synthesis of the Practicum Engagement

Aside from the certificates earned, the student gained valuable learnings from this Practicum engagement. These include both soft skills and hard skills.

The student gained a deeper understanding of creativity, realizing that creative thinking is not solely about design but about generating great ideas. Recognizing that the quality of an idea can only be assessed by comparing it to many others, the student learned the importance of generating ideas quickly. Furthermore, the student gained knowledge about agile project management and its comparison to other methodologies. She understood the processes and roles involved in an agile project. Additionally, she learned about effective communication through verbal and nonverbal cues. She learned how to remove clutters that may take up her time and harm her time management. She learned about email, text, and phone business etiquettes, and how to handle work and meetings in remote or hybrid setup.

The student also gained knowledge about user experience (UX) design. She discovered that UX design goes beyond creating apps and user interfaces; it involves research to understand users and develop the best solutions for their needs.

Furthermore, the student became aware of the current technologies in web and mobile development. She learned about full-stack development using React or Vue.js in the frontend and Node.js in the backend, along with SQL, NoSQL, and REST APIs. She also learned about the basics of web development using Django. The student also delved into mobile app development using React Native and Swift.

One significant realization for the student was the rapid evolution of programming languages and frameworks. She discovered that syntax from courses created 2-5 years ago might no longer work due to changes in specific languages.

Moreover, the student gained an understanding of web3 development through the Metacrafters courses. She was able to create Solidity smart contracts deployable in Ethereum and Avalanche blockchains. The student also got to practice her presentation skills through code walkthroughs required for the projects.

In conclusion, this Practicum engagement allowed the student to enhance both her soft skills and hard skills, from creative thinking to the latest technologies in web and mobile development. While it cannot fully replace the experience of on-the-job training with a company, the student acquired valuable knowledge that will greatly benefit her future career.

Appendices

1. Competency-Based CV
2. Practicum Confirmation and Acceptance Form
3. Student Training Agreement and Liability Waiver
4. Learning Path Proposal
5. Complete Weekly Journal

Competency-Based CV

CHARMAINE EUNICE RABANO

charmaine.rabano@gmail.com | 0999 825 0700
linkedin.com/in/cerabano | charmaineeunice.com

SKILLS

Front-end Development

- ◆ Advanced HTML & CSS knowledge – Complex web pages with semantic HTML, CSS animations, and flexible layouts
- ◆ Intermediate TailwindCSS and Bootstrap knowledge – Custom theme and responsive design
- ◆ Advanced JavaScript knowledge – DOM manipulation, OOP-based programs, and error handling
- ◆ Advanced React knowledge – Functional components, hooks, Context API, Redux, Jest testing, Gatsby and Next.js
- ◆ Intermediate Vue knowledge – Vue directives, data binding, routing, conditional rendering, components and Vuex

Back-end Development

- ◆ Intermediate Python knowledge – Console apps, machine learning programs, and Django web apps
- ◆ Intermediate C# knowledge – OOP-based programs with ASP.NET and API integration
- ◆ Intermediate SQL knowledge – Data manipulation operations, table relationships and complex queries

Web3 Development

- ◆ Intermediate Solidity knowledge – EVM smart contracts on Ethereum and Avalanche, with front-end integration

Mobile App Development

- ◆ Basic React Native knowledge – Simple Android and iOS apps with basic components and features

Software / Tools

- ◆ Development and version control using VS Code, Visual Studio, and GitHub
- ◆ Project management and documentation using Microsoft and Google Suite, Trello and Jira
- ◆ Website design and wireframing using Figma, FigJam, Adobe Illustrator & Photoshop, and Canva
- ◆ Drag-and-drop website development using WordPress builders, Wix, Squarespace, Webflow, and others

PROJECTS

Mapúa MCL ACM Student Chapter Website – 2022

- ◆ Developed an organizational website for Mapúa MCL ACM Student Chapter using React and Gatsby
- ◆ Took part in designing and coding the website, as well as in writing the website content

Seat Save – 2022

- ◆ Developed a seat reservation system for MCL's library (CLIR), to help observe COVID-19 safety protocols, using React, Next.js and ASP.NET WebApi
- ◆ Led the UI/UX and front-end development of the system's website
- ◆ Adopted Agile methodologies during development

Sparse: A Reservation and Computer Vision-Based Room Occupancy System for Malayan Colleges Laguna's Center for Learning and Information Resources – Published April 2022

RSU International Research Conference 2022

- ◆ Published as a co-author a conference paper on utilizing computer vision in monitoring room occupancy of MCL's library (CLIR) and developed a system using C#, ASP.NET, SQL, and Python

CERTIFICATES

Metacrafters Solidity and Avalanche

- ◆ ETH Proof: Beginner EVM Course – Issued April 2023
- ◆ ETH + AVAX Proof: Intermediate EVM Course – Issued May 2023

LinkedIn Learning: Become a React Native Developer – Issued May 2023

LinkedIn Learning: Become a Full-Stack Web Developer – Issued May 2023

Meta Front-End Developer Professional Certificate (Specialization in Coursera)

- ◆ Introduction to Front-End Development – Issued August 2022
- ◆ Programming with JavaScript – Issued October 2022
- ◆ Version Control – Issued November 2022
- ◆ HTML and CSS in depth – Issued January 2023
- ◆ React Basics – Issued March 2023

CompTIA IT Fundamentals (ITF+) Certification – Issued July 2022

DICT Programming with Python – Issued April 2022

Competency-Based CV (cont'd)

FREELANCING EXPERIENCE

Tech virtual assistant and website designer – February 2022 to present

STEM4Real (San Francisco, CA)

- ◆ Redesigned and maintained WordPress website using Thrive Suite
- ◆ Performed other tasks such as graphic design, video editing and other admin tasks

Landing page and website designer – 2020 to 2021

Foreign online entrepreneurs and coaches

- ◆ Designed and built websites and landing pages using WordPress and other website builders
- ◆ Set up website domain and hosting, as well as page structure with customized layouts
- ◆ Communicated with clients to understand their needs and provide them with needed solutions

STUDENT ORGANIZATION INVOLVEMENT

Mapúa MCL ACM Student Chapter

A student organization chartered by the Association for Computing Machinery (ACM)

- ◆ Served as the Vice President in A.Y. 2020-2021
- ◆ Planned and executed online events and activities for the organization during the COVID-19 lockdown as part of the Executive Committee
- ◆ Became part of the Publication Committee that creates publication materials for social media and maintains website content
- ◆ Became the emcee for UXPH Webinar, GeekCon 2022 and GDAP Academic Roadshow, and facilitated Hour of Code events

College of Computer and Information Science Student Council

- ◆ Served as the Secretary for Treasury in A.Y. 2020-2021
- ◆ Handled the student council's funds
- ◆ Planned and executed online events and activities for the whole college during the COVID-19 lockdown with other student council members

EDUCATION

Mapúa Malayan Colleges Laguna

Bachelor of Science in Computer Science – 2019 to present (Expected graduation date: June 2023)

- ◆ Running GWA: 1.22
- ◆ Granted academic scholarship through the E. T. Yuchengco Institutional Scholarship program
- ◆ Received President's List and Dean's List awards

Science, Technology, Engineering, and Mathematics (STEM) strand – 2017 to 2019

- ◆ Graduated with High Honors and as the class valedictorian
- ◆ Delivered the Thanksgiving Address during the 2019 graduation ceremony
- ◆ Granted academic scholarship through the Academic Achievement Incentive program

Practicum Confirmation and Acceptance Form



REVISION NO.:
REVISION DATE:

PRACTICUM CONFIRMATION AND ACCEPTANCE FORM

IMPORTANT INFORMATION

- STUDENTS ACCEPTED FOR PRACTICUM IN A HOST COMPANY WILL HAVE TO ACCOMPLISH THIS FORM.
- ASK THE PRACTICUM SUPERVISOR/ COMPANY REPRESENTATIVE TO FILL IN THE DETAILS OF THE TRAINING.
- SUBMIT TO THE PRACTICUM ADVISER/COORDINATOR PRIOR TO THE START OF TRAINING.

NAME OF STUDENT	Charmaine Eunice I. Rabano	STUDENT NUMBER	2019162012
COURSE CODE	CS199F	SY/TERM ENROLLED	SY 2022-2023 / 3rd term

This is to certify that Charmaine Eunice I. Rabano (name of student-trainee) has been accepted for practicum at Mapua Malayan Colleges Laguna (name and address of establishment) and will be attached to the CCIS department/s for a minimum of, but not limited to 324 hours. Training will commence on March 30, 2023 and is expected to end on May 21, 2023. Attached is the list of requirements.

COMPANY REPRESENTATIVE	
Signature over Printed Name	Official Designation
Department	Email and Contact Number/s

NOTED BY	
<u>Jonalyn S. Sison JONALYN S. SISON</u> Signature over printed name of Practicum Coordinator	<u>03/29/2023</u> Date

COPY: (1) STUDENT; (2) HOST COMPANY; (3) PRACTICUM COORDINATOR

FORM OVPAA 030B

THIS FORM IS AVAILABLE AT THE OVPAA.

Student Training Agreement and Liability Waiver



Malayan Colleges Laguna
A MAPUA SCHOOL

REVISION NO.: 00
REVISION DATE: May 10, 2016

STUDENT TRAINING AGREEMENT AND LIABILITY WAIVER

IMPORTANT INFORMATION

- THIS FORM IS TO BE ACCOMPLISHED AND SUBMITTED BY STUDENT TRAINEE TO THE PRACTICUM ADVISER BEFORE STARTING THE PRACTICUM.
- READ AND UNDERSTAND THE PROVISIONS OF THIS AGREEMENT AND WAIVER.
- ENSURE THAT ALL SIGNATORIES SIGN THE FORM.

I, Charmaine Eurice I. Rabano, and a student of MALAYAN COLLEGES LAGUNA (hereinafter referred to as "MCL", do hereby voluntarily undergo on-the-job training at Media Malayan College Laguna, hereinafter referred to as the "Host Company", located at Pinto-Dizimo Road, Calamba City, Laguna, under the following terms and conditions:

- a. That the practicum training will commence on March 30, 2023 and ends on May 24, 2023 and will have to complete a minimum of 324 hours required for the on-the-job training;
- b. That I shall observe proper decorum and act professionally at all times and abide by the Company's rules and regulations and comply with those imposed for the training program, otherwise, I shall be excluded from further participation;
- c. That in the course of my training program, I may have access to information which may be of confidential in nature and proprietary to the Company, for which I may be required to execute a confidentiality and non-disclosure agreement as a prerequisite to my participation in the training program;
- d. That the time I will spend on the training program in the completion of my on-the-job training requirements will not and should not be interpreted or construed as working hours and should be regarded as non-compensable. Provided that, the Company may, as a unilateral act of liberality or generosity on their part, provide me with meal, travel, transportation allowances, accommodations, etc.;
- e. That I fully understand that notwithstanding the allowances enumerated in the preceding section which I may receive, there exists no labor-management and/or employer/employee relationship between me and the Company where I will undergo my training;
- f. That I shall exercise due care and diligence in the tasks assigned to me and personally be made answerable for any and all liabilities for damage to property or injury to third person, which may be occasioned by my intentional or negligent acts during the course of my on-the-job training;
- g. That I shall likewise hold the Host Company and MCL free and harmless from any and all liability and responsibility for any sickness or injury to myself and third parties and damage to property which I may sustain and/or may occur at any time during the training program, including time spent in traveling to and from any and all premises and locations where I may be required to go to as part of my training program;
- h. That the Company reserves the right to discontinue my training on reasonable grounds upon written notice to MCL and myself. Additionally, in the event my training program is discontinued for reasons attributable only to myself, I may be made to reimburse the Host Company for any/all the allowances, stipends, etc., which I may have received from them during and prior to the termination of my training program;
- i. That in addition to my liability under section g and for the pre-termination of my training program provided for under section h hereof, I may be subjected further to disciplinary action in accordance with the school's student manual and/or be a ground for disqualification from graduation;

Signed on this 29th day of March 2023.

Charmaine Eurice I. Rabano
Signature over printed name of Student Trainee

WITH OUR CONSENT:

Signature over printed name of Parent/Guardian
(for minors only)

NOTED BY:

Donalyn B. Esmon
Printed Name and Signature of Practicum Adviser/ Coordinator

Printed Name and Signature of Host Company Representative

Learning Path Proposal



Malayan Colleges Laguna
A MAPÚA SCHOOL



College of Computer
and Information Science
Malayan Colleges Laguna

CS PRACTICUM X LEARNING PATH PROPOSAL

COMPLETE NAME : Charmaine Eunice I. Rabano
STUDENT NUMBER : 2019162012

PROGRAM : CS

IDENTIFIED LEARNING MODULES

A. Required Learning Modules

1. Design Thinking Learning Module (*Total Engagement Hours: 15 hours Total Credit Hours: 30 hours*)
 - a. Learning Design Thinking: Lead Change in Your Organization by Turi McKinley (2h 8m)
 - b. Develop Your Creative Thinking and Innovation Skills Learning Path 8 courses (8h)
 - c. Develop Critical-Thinking, Decision-Making, and Problem-Solving Skills 6 courses (5h)
2. Project Management Learning Module (*Total Engagement Hours: 15 hours Total Credit Hours: 30 hours*)
 - a. Project Management Foundations by Bonnie Biafore (3h 20m)
 - b. Become an Agile Project Manager Learning Path 9 courses (12h)
3. Workplace Management Learning Module (*Total Engagement Hours: 15 hours Total Credit Hours: 30 hours*)
 - a. Develop Your Communication Skills and Interpersonal Influence 9 courses (8h)
 - b. 5S Workplace Productivity by Gemba Academy (1h 36m)
 - c. Time Management Fundamentals by Dave Crenshaw (2h 53m)
 - d. Time Management: Working from Home by Dave Crenshaw (1h 25m)
 - e. Business Etiquette: Phone, Email, and Text by Suzanna Kaye (58m)

B. Specialization Learning Modules

1. User Experience (*Total Engagement Hours: 29 hours Total Credit Hours: 58 hours*)
 - a. Exploring a Career in User Experience Design 10 courses (8h 30m)
 - b. Improve Your UX Design Skills 7 courses (6h 50m)
 - c. Advance Your Skills in User Experience Design 9 courses (14h 22m)
2. Web Development (*Total Engagement Hours: 68 hours Total Credit Hours: 136 hours*)
 - a. Become a Full-Stack Web Developer 12 courses (30h)
 - b. Improve Your React Skills 10 courses (17h 40m)
 - c. Explore Web Development with Vue.js 6 courses (12h 8m)
 - d. Become a Django Developer 4 courses (8h 45m)

Mapúa Institute of Technology at Laguna · College of Computer and Information Science · E.T. Yuchengco College of Business · Mapúa-PTC College of Maritime Education and Training
College of Arts and Science · Institute for Excellence in Continuing Education and Lifelong Learning · MCL Senior High School

Address : Cabuyao, Laguna 4025
Trunkline : +63 (49) 832-4000
Fax : +63 (49) 832-0017, +63 (2) 520-8975
Email : mclinfo@mcl.edu.ph

www.mcl.edu.ph MalayanColleges MalayanLaguna

Learning Path Proposal (cont'd)



3. Mobile Application Development (*Total Engagement Hours: 20 hours Total Credit Hours: 40 hours*)

- a. Become a React Native Developer 5 courses (11h 1m)
- b. Get Started with iOS App Development 5 courses (9h 36m)

PREPARED BY:

03/29/2023
Charmaine Eunice I. Rabano
Signature over Printed Name / Date

APPROVED BY:

3/29/2023
Signature over Printed Name / Date

Mapúa Institute of Technology at Laguna · College of Computer and Information Science · E.T. Yuchengco College of Business · Mapúa-PTC College of Maritime Education and Training
College of Arts and Science · Institute for Excellence in Continuing Education and Lifelong Learning · MCL Senior High School

Address : Cabuyao, Laguna 4025
Trunkline : +63 (49) 832-4000
Fax : +63 (49) 832-0017, +63 (2) 520-8975
Email : mclinfo@mcl.edu.ph

www.mcl.edu.ph MalayanColleges MalayanLaguna

Complete Weekly Journal



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	March 16 - 17, 2023	AREA ASSIGNMENT	
TASK	Looking for HTE	SHIFT/TIME	

March 16: I followed up with my application to Accenture because they already dropped my application for the full-time position since I said that I was applying to the internship instead. I asked if I could push through with the original application.

March 17: I followed up again with Accenture via another person that contacted me, since the person that I contacted yesterday did not reply.

A handwritten signature, appearing to read 'cur', is placed over a rectangular box.

TRAINEE'S SIGNATURE

COPY: (1) STUDENT; (2) PRACTICUM ADVISER

FORM OVPAA 030G

THIS FORM IS AVAILABLE AT THE OVPAA.

Complete Weekly Journal (cont'd)



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	March 20 - 24, 2023	AREA ASSIGNMENT	
TASK	Looking for HTE	SHIFT/TIME	

March 20: I went to school to get an endorsement letter from Sir Ian to Prosperna because Accenture is still not responding.

March 21: I contacted Prosperna and sent the endorsement letter.

March 22: I attended the internship event held in school (iConnect: Marketplace of Internship Opportunities). After the event, I emailed Manulife to send my application for their internship program.

March 23: Since Manulife did not reply the previous day, I sent emails to ATEC, Ampleon, TDK, iRipple, and Chrisimm Sentimo Kumon to inquire about their internship programs.

March 24: I received a reply from Chrisimm Sentimo Kumon and I replied back to apply for their internship program.

A handwritten signature, appearing to read 'cur', is placed over a rectangular box.

TRAINEE'S SIGNATURE

COPY: (1) STUDENT; (2) PRACTICUM ADVISER

FORM OVPAA 030G

THIS FORM IS AVAILABLE AT THE OVPAA.

Complete Weekly Journal (cont'd)



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	March 27 - 31, 2023	AREA ASSIGNMENT	
TASK	Learning Path Approval	SHIFT/TIME	

March 27: I had to cancel my application to Chrisimm Sentimo Kumon because I learned that their internship program might not be aligned to our Practicum student outcomes. I also sent an inquiry to the internship program in Biñan City Government and then followed up with Prosperna.

March 28: I followed up with Fasttrack Solutions, where I have applied during the term break.

March 29: Manulife called me about my application, but they said that the earliest start date is May 10, 2023. I did not accept it because I won't be able to finish my required hours by the end of the term if I start that late. Since I still have no HTE by this time, I decided to take the learning path and I created my learning path proposal. I went to school the same day for the approval and to submit other requirements. I also submitted the BBL requirements online.

March 30: I accomplished the LinkedIn Learning license enlistment and payment. Afterwards, I planned out the schedule dates on when I would do each of the courses in my learning path modules.

March 31: I started doing the Module 1 Major Assessment requirement in BBL. I planned out the flow of my video, then created a gantt chart of my schedule dates for each module. Total hours: 3


TRAINEE'S SIGNATURE

COPY: (1) STUDENT; (2) PRACTICUM ADVISER

FORM OVPA 030G

THIS FORM IS AVAILABLE AT THE OVPA.

Complete Weekly Journal (cont'd)



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	April 3 - 7, 2023	AREA ASSIGNMENT	
TASK	Module 1 Assessment & Design Thinking	SHIFT/TIME	

April 3: I mostly did the Module 1 Major Assessment. In the morning, I first looked into each of the courses that I included in my proposal. I noted down the skills that I'll gain in each and then I wrote an outline of what I'll say in my video presentation. After lunch, I took the video then did minor editing, and then submitted the video in BBL. Aside from that, I also followed up about my LinkedIn Learning license via email. Total hours: 7

April 4: I started with the Design Thinking module and did the Develop Your Creative Thinking and Innovation Skills learning path. I was able to finish the first 6 courses. In these courses, I learned about the concept of creativity and creative thought. I learned that I should train myself to generate ideas quickly, because to know whether my idea is good, I need many ideas to compare to. I did a lot of mini exercises in the 2nd course which were fun to do and exercised my creative mind. I also learned about how to foster creativity in a team or organization by building a creative climate, as well as how to shift from being reactive to being creative, and how to give and receive feedback to remedy each other's blind spots. Total hours: 10

April 5: I did the last course in the Develop Your Creative Thinking and Innovation Skills learning path, which is about innovation. This discussed the Innovator's DNA and Innovator's Method, which not only focuses on the generation of creative ideas, but also in turning these ideas into innovations. I also took the Learning Design Thinking course and it discussed design thinking, which is a mindset around problem solving with human empathy at its core and a bias towards making, rather than a single, repeatable process. After that, I took the 6 courses in the Develop Critical-Thinking, Decision-Making, and Problem-Solving Skills learning path. These courses are centered towards making better decisions through critical thinking. Total hours: 10

April 6: HOLIDAY

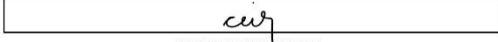
April 7: HOLIDAY

TRAINEE'S SIGNATURE

Complete Weekly Journal (cont'd)

 MCL Malayan Colleges Laguna A MAPUA SCHOOL	REVISION NO.: 00 REVISION DATE: May 10, 2016
DAILY JOURNAL	
IMPORTANT INFORMATION	
<p><input checked="" type="checkbox"/> INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.</p> <p><input checked="" type="checkbox"/> SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.</p> <p><input checked="" type="checkbox"/> HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.</p>	
DATE	April 10 - 14, 2023
AREA ASSIGNMENT	
TASK	Project Management & Workplace Management
SHIFT/TIME	
<p>April 10: HOLIDAY</p> <p>April 11: I started with the Project Management module and took the Project Management Foundations course. In this course, I learned about different concepts about project management and the difference between the waterfall and agile project management lifecycles. I also took the first 7 courses in the Getting Started as an Agile Project Manager learning path. I learned about different tools used in agile management, esp. the Microsoft Project, but I still think that Jira is much easier and intuitive to use. I also learned in the 6th course that software development is more like an experiment, rather than a manufacturing process. Total hours: 11</p> <p>April 12: I finished the last two courses in the Getting Started as an Agile Project Manager learning path, where I learned about what makes up an agile team and how to create agile user stories. I also started with the Workplace Management module and took the first 7 courses in the Develop Your Communication Skills and Interpersonal Influence. In these courses, I learned how I can communicate effectively and with confidence, as well as the nonverbal cues that I should take notice of. Total hours: 6</p> <p>April 13: I took two courses about time management. In here, I took some needed actions to remove different types of clutter so that they don't take up my time. I also took the Business Etiquette course that discussed about email, text and phone etiquettes. I also took the first 3 courses in the Succeeding in Hybrid Work learning path, where I learned about the hybrid work setup and some useful tips to work in this setup. Total hours: 5</p> <p>April 14: I took the last 3 courses in the Succeeding in Hybrid Work learning path, which gave more tips about working remotely or in a hybrid setup, including how to handle meetings. After that, I took 2 courses kaizen, which is a Japanese concept about increasing efficiency in the workplace. These also discussed about the 5S of workplace organization. Total hours: 3</p>	
 TRAINEE'S SIGNATURE	
COPY: (1) STUDENT; (2) PRACTICUM ADVISER	
FORM OVPAA 030G THIS FORM IS AVAILABLE AT THE OVPAA.	

Complete Weekly Journal (cont'd)

 MCL Malayan Colleges Laguna A MAPUA SCHOOL	REVISION NO.: <input type="text" value="00"/> REVISION DATE: <input type="text" value="May 10, 2016"/>
DAILY JOURNAL	
IMPORTANT INFORMATION	
<input checked="" type="checkbox"/> INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.	
<input checked="" type="checkbox"/> SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.	
<input checked="" type="checkbox"/> HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.	
DATE	<input type="text" value="April 17 - 21, 2023"/>
AREA ASSIGNMENT	<input type="text"/>
TASK	<input type="text" value="Metacrafters JS Proof & ETH Proof Beginner"/>
SHIFT/TIME	<input type="text"/>
<p>April 17: I started with the Metacrafters modules and took the JS Proof course. This course was like a refresher for me because I already have knowledge about JavaScript. I was able to finish modules 1 to 3 in this course.</p> <p>Total hours: 2</p>	
<p>April 18: I did the final project for the JS Proof where I created some JavaScript functions that imitates the minting of NFTs. I also recorded a video code walkthrough of this project as part of the requirements.</p> <p>Total hours: 2</p>	
<p>April 19: I started with the ETH Proof course which is a beginner course for Solidity. I was only able to take the first module where I just learned about the concept of web3. Total hours: 2</p>	
<p>April 20: I continued with the ETH Proof Beginner course and finished modules 1 and 2. In here, I learned about more web3 concepts, including the blockchain, Ethereum, EVM and dApps. I finally understood the blockchain because I have always been curious about it since I hear it everywhere. Total hours: 6</p>	
<p>April 21: I did the 3rd module of the ETH Proof Beginner course, where I finally started with creating smart contracts. This is a new learning for me and it's really interesting to see more clearly how blockchains work and the role of smart contracts in storing data. I also did the final project in this course which is a smart contract. I again recorded a code walkthrough of it. Total hours: 8</p>	
 TRAINEE'S SIGNATURE	
COPY: (1) STUDENT; (2) PRACTICUM ADVISER	
FORM OVPAAG 030G	
THIS FORM IS AVAILABLE AT THE OVPAAG.	

Complete Weekly Journal (cont'd)



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- ☒ INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- ☒ SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- ☒ HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	April 24 - 28, 2023	AREA ASSIGNMENT	
TASK	Metacrafters ETH Proof Intermediate	SHIFT/TIME	

April 24: I started the ETH Proof Intermediate course which is a more in-depth and more detailed discussion of Solidity. I learned more Solidity concepts such as modifiers, functions and events. I learned how to connect Solidity smart contracts into a JavaScript backend to print out events in the console. Total hours: 6

April 25: I continued with the 1st module of the ETH Proof Intermediate. I learned about different global functions in Solidity, as well as different methods of error handling. After that, I did the module 1 project, which is also about error handling. I also recorded a code walkthrough video and wrote a readme file for the Github repository I submitted. Total hours: 4

April 26: I did the 2nd module of the ETH Proof Intermediate course. In this module, I learned about the different types of memory in Solidity. I also learned about proxy contracts which allows for the implementation of a contract to be changed. Aside from that, I learned how to connect dApps to a user's Metamask wallet to allow logging in without emails and passwords, as well as frontend integration of smart contracts. Total hours: 8

April 27: I did the module 2 project for ETH Proof Intermediate which is about integrating a frontend to the smart contract. In this project, I created a React frontend to be integrated to my smart contract. I had to do additional research because the course did not discuss how to connect React. It was very interesting to learn how to do this integration because I enjoy doing frontend development. Total hours: 6

April 28: I took the 3rd module in the ETH Proof Intermediate where I learned about different types of functions. I also learned about ERC20 and how to override ERC20 to create my own token. After that, I did the module 3 project where I created my own ERC20 token. I gave it a name and created functions such as minting, transferring and burning. I also created a frontend to allow the users to execute these functions. Total hours: 9

[Signature]

TRAINEE'S SIGNATURE

COPY: (1) STUDENT; (2) PRACTICUM ADVISER

FORM OVPA 030G

THIS FORM IS AVAILABLE AT THE OVPA.

Complete Weekly Journal (cont'd)



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	May 1 - 5, 2023	AREA ASSIGNMENT	
TASK	Web Development	SHIFT/TIME	

May 1: HOLIDAY

May 2: I continued my learning path modules and started the Web Development module. I did the first two courses in the Become a Full-Stack Web Developer learning path, which are HTML and CSS courses. Since I already know these languages, the courses were more of a refresher for me. But even though I'm already familiar with the languages, I still learned some new concepts like ARIA roles. Total hours: 7

May 3: I did the 3rd to 5th courses in the Become a Full-Stack Web Developer learning path. In here, I learned about JavaScript and ECMAScript 6+. I already have previous knowledge about this, but taking the courses helped improve my knowledge, especially in knowing which syntax should be used based on recent updates. I also learned about the different searching techniques to find useful resources online. Total hours: 5

May 4: Continuing with the Become a Full-Stack Web Developer learning path, I took the courses for Git, React, Node JS, and SQL. I already have good knowledge about Git, React and SQL, so the courses served as a refresher for me. However, it is my first time to learn about Node JS. It was interesting to learn about Node JS because I can now utilize my JavaScript knowledge in the backend. Total hours: 8

May 5: I finished the last 3 courses of the Become a Full-Stack Web Developer learning path, which are about NoSQL, REST APIs and DevOps. The course on NoSQL only covered the overview but I wish there were demonstrations on how to use it in actual apps. REST APIs is not new to me, but it is my first time to learn about DevOps. After that, I did the additional Metacrafters module about how to deploy EVM smart contracts on the Avalanche blockchain, and did the required project. Total hours: 9

TRAINEE'S SIGNATURE

COPY: (1) STUDENT; (2) PRACTICUM ADVISER

FORM OVPAA 030G

THIS FORM IS AVAILABLE AT THE OVPAA.

Complete Weekly Journal (cont'd)



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- ☒ INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- ☒ SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- ☒ HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	May 8 - 12, 2023	AREA ASSIGNMENT	
TASK	Mobile App Development & User Experience	SHIFT/TIME	

May 8: I started the Mobile Application Development module and took the first course in the Become a React Native Developer learning path. I really like to learn about React Native because I can use my React knowledge into mobile development. I tried to follow with the demonstration in the course but I found some conflicts because the course was created in 2020 and it seems like there were newer updates in the language ever since. With this, I realized that programming languages are really fast-paced, there are always new updates and these courses gets outdated very quickly. Total hours: 6

May 9: I finished the React Native Essential Training course then took the From React to React Native course. Here, I learned how to convert a React app into React Native. I saw that there are a lot of similarities between the two languages, but there are some concepts in React Native that are unique to mobile development. Total hours: 2

May 10: I took the last 3 courses in the Become a React Native Developer learning path. In these courses, I learned more about React Native and how to do more things with it. After that, I started the User Experience module and took the first 8 courses in the Exploring a Career in User Experience Design learning path, where I learned about the step-by-step process of doing UX design. I also learned that creating personas is very useful even if it doesn't match all the users, because in product design, any focus is better than no focus. Also, paper prototypes that are very unpolished makes it easier to be honest and to move things around for early testing. Total hours: 8

May 11: I continued with the User Experience module. I started with the Sketching for UX Designers course where I learned different sketching techniques for UI design and storyboarding. I also enjoyed the UX Foundations: Storytelling course and learned a useful technique for website copywriting: "If you want people to choose your product, make it an essential part of their story". I was able to finish the Improve Your UX Design Skills learning path. Total hours: 7

May 12: I finished all 9 courses in the Advance Your Skills in User Experience Design learning path, where I learned about tools like Figma, Miro and Google Analytics, as well as accessibility in web design. Total hours: 6

TRAINEE'S SIGNATURE

Complete Weekly Journal (cont'd)



REVISION NO.: 00
REVISION DATE: May 10, 2016

DAILY JOURNAL

IMPORTANT INFORMATION

- INCLUDE TASK ASSIGNMENTS OR MOVEMENTS, REFLECTION ON THE DAY'S NEW LEARNING, ACCOMPLISHMENT, CHALLENGES FACED AND HOW YOU RESPONDED, OBSERVATIONS AND RECOMMENDATIONS ON THE IMPROVEMENT OF SYSTEMS / OPERATION / MANAGEMENT, ETC.
- SCANNED COPIES OF THIS FORM SHALL BE SUBMITTED ON A WEEKLY BASIS THROUGH APPROVED LMS.
- HARD COPIES OF THIS FORM SHOULD BE COMPILED AS PART OF THE STUDENT'S PORTFOLIO.

DATE	May 15 - 19, 2023	AREA ASSIGNMENT	
TASK	Web Development and Mobile App Development	SHIFT/TIME	

May 15: I went back to doing the Web Development module and started the Improve Your React Skills learning path. I took the courses about React Router v6 and CSS modules. It's my first time to learn about the CSS modules but I think it is only practical for big projects but not really needed for small projects. Total hours: 2

May 16: I took the 3rd to 6th courses in the Improve Your React Skills learning path. In here, I learned about different security threats and how to secure React apps using Auth0. I also learned about testing React apps using Jest. In the React: Design Patterns course, I learned about different styles or techniques of creating a React app, leveraging different types of components. Total hours: 7

May 17: I finished the last 4 courses in the Improve Your React Skills learning path, where I learned about the React software architecture, integrating GraphQL into React, and creating React apps with Firebase. I also started the Explore Web Development with Vue.js learning path and learned that Vue can be easily integrated into a website built with pure HTML and CSS. Total hours: 8

May 18: I took the last 4 courses in the Explore Web Development with Vue.js learning path where I learned more about building web apps using Vue. I learned that I can also use Jest for testing Vue apps similar to how it is used in React. I also learned how to build full stack Vue apps using Node JS. After that, I took the Become a Django Developer learning path and learned how I can use my Python knowledge in web development. I learned the basics of using Django in the backend, as well as how to deploy Django apps using various online platforms.

Total hours: 10

May 19: I did the Module 2 Major Assessment and submitted it in BBL. After that, I took the remaining item in the Mobile Application Development module which is the Get Started with iOS App Development learning path. I learned about creating iOS apps using Swift and it is my first time learning about this. I learned how to build apps for iOS 14 and iOS 16 and their differences. I also learned about Xcode which is an IDE used in creating iOS apps.

Total hours: 9

TRAINEE'S SIGNATURE

COPY: (1) STUDENT; (2) PRACTICUM ADVISER

FORM OVPA 030G

THIS FORM IS AVAILABLE AT THE OVPA.