Trung Ly

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EDUCATION

Kirkwood Community College   **August 2019 – May 2021**
Major: Liberal Arts - Engineering   Cedar Rapids, Iowa
- Dean's List (2019)

Iowa State University   **August 2021 – Present**
Major: Computer Science (**August 2022 – Present**)   Ames, Iowa
Expected Graduation Date: **December 2025**

SKILLS

Languages: Python, Java, Javascript, Typescript, HTML, CSS
Frameworks and Tools: VSCode, XCode, React, React Native, GitLab, Git, Slack,Agile Methodologies, Jira, Docker, NPM, Linux,Clickup,Figma, Android Studio, Eclipse

WORK EXPERIENCE

Software Engineer Intern   **August 2024 – Present**
National Carwash Solutions   Grimes, Iowa
Accupump Web-app codebase modernization   Java | JSP | CSS | Docker | GitLab
- Code refactorization and documentation for maintainability and scalability of the legacy web application.
- Collaboration with the Sr. Product Engineer for tasks review to ensure best practice to adhere to industry standards.
- Collaborated with the team using version control to merge code and request review using GitLab.
- Cleaned up unimplemented classes within the web application code base.
- Performed research on various functions and their broader implementations.

Mobile App Development: NCS Lens App   Javascript | Typescript | React | React Native | Python
Front-end (Client Side)
- Developed and and implemented reusable components in React Native for efficient and scalable mobile application
- development.
- Hands-on experience in styling React components using modern CSS techniques.
- Worked with UI elements, making them functional and responsive using HTML,CSS, and JavaScript.
- Collaboration with a Software Developer with front-end experience to design and implement the user interface.
- Involved in the entire software development lifecycle using Agile methodologies, from initial requirements.
- Gathering and design through iterative development,testing, and deployment.

Back-end (Server-side)
- Utilized Docker to manage a multi container for app development.
- Configured the database involving adding user credentials to access the app through an emulator.
- Application of APIs connection with Front-end and Back-end using Django framework.

ACADEMIC PROJECTS

Computer Science Undergraduate   **January 2024 - July 2024**
Iowa State University   Ames, Iowa

Weighted Graphs Implementation   Java | JUnit | Eclipse
- Developed a comprehensive Graph Interface to deepen understanding of concepts over Graphs and Graph explorations.
- Implemented key algorithms, including Dijkstra's Algorithm for shortest path calculations and Prim's Algorithm for minimum spanning tree construction.
- Collaborated with peers and instructors on Piazza to brainstorm and develop test cases using JUnit,enhancing the robustness of the implementation.

Profit Utilization for Internet Service   Java | JUnit | Eclipse
- Deployed a multi dimensional grid to locate the type of users for determination of the profit.
- Adhere the project standards such as updating the cell in the grid for accurate profit calculation.
- Implemented five subclasses that represent the type of users that behave differently.
- Implemented test cases to ensure correctness of the implementation of the algorithm.

Archived Message Reconstruction   Java | JUnit | Eclipse
- Developed a program to reconstruct/unzip the archived message using a binary-tree.
- Implemented tree traversal algorithms such as pre-order traversal to build out the tree and print out the codes recursively.
- Encoded each certain character in each node to store data for message decryption.

ACTIVITES

- Vietnamese Student Association /Asian Student Union
- L.B.A Foundation (Leaders Believers Achievers)
- U.S.A Amateur Boxing (Los Primos Boxing Club)
- Computer Science Engineering Club