

# Jingyu (Marcel) Lee

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## EDUCATION

Dickinson College Carlisle, PA

Expected graduation: May 2024

GPA: 3.98/4.0

B.S in **Computer Science** and **Quantitative Economics**

**Relevant Courses:** Artificial Intelligence, Data Structures and Algorithms, Principals of Objected Oriented Programming, Computing Abstraction, Numerical Methods, Linear Algebra, Large-Scale Open-Source Software Development, Econometrics

## SKILLS

**Programming Language:** Python, Java, JavaScript, MATLAB, R, SQL

**Frameworks/Tools:** Git, Docker, Bash, MySQL, Octave, HTML, CSS, React.js, Vue.js, Gatsby.js, MaterialUI, Bootstrap4, jQuery, Cypress, Pandas, NumPy, Matplotlib, LaTeX

**Language:** Korean (Native), English, Mandarin Chinese (Fluent)

## WORK EXPERIENCE

### FarmData2

Carlisle, PA

Software Development Intern

June 2022-Present

- Dockerized Express.js module to create SQL based endpoints that improved API response time by 40%.
- Develop front-end features for a web-based data management system with HTML, CSS, JavaScript, Vue.js, and jQuery.
- Create configuration page to allow customization of Axios REST API requests for toolkits to save 30% of development time.
- Modularize frequently used features into Vue components and conduct Cypress unit/end-to-end tests.

### Veterans Education

Seoul, Korea

Software Engineer Intern

May 2021-Aug 2021

- Provided web-enabled online quiz solution for 500 student users using HTML, CSS, Bootstrap4, JavaScript, and React.js.
- Optimized MySQL database duration by 220ms (50%) to reflect real-time changes in students' status on the Kiosk server.
- Built pipeline to perform graphical analysis of students' performances with Python Pandas, NumPy, SciPy, and Matplotlib.

### Korean Augmentation to the US Army (KATUSA)

Pyeongtaek, Korea

Enlisted Sergeant (SGT); 2<sup>nd</sup> Infantry Division Resource Management Specialist/APC

Aug 2019-Mar 2021

- Maintained <3% card delinquencies, frauds, abuses, and misuses by generating weekly Excel reports with SQL and Openpyxl.
- Created Python script to automate in/out-processing of 6000+ Division Defense Travel System profiles.

## PROJECTS

**Royalty NFT Smart Contract** Rust, JavaScript, SwiftUI, Gear API [<https://devpost.com/software/smart-contracts-and-royalties>]

**First place** in HoyaHacks 2022 Gear Technology Track

NFT Smart Contract deployed on Gear Polkadot Parachain that allows users to mint and create NFTs that enable percentage return to the original creator.

**SusTrip** TypeScript, JavaScript, React.js, Next.js, Convex, OpenStreetMap API, MaterialUI [<https://www.sustrip.tech>]

SusTrip is a full-stack web application that records users' past trip information and respective carbon footprints. It aims to help users think more carefully about the mode of transportation they wish to take.

**Portfolio Website** HTML, CSS, JavaScript, React.js, Gatsby.js, MaterialUI [<https://www.jingyumarcellee.com>]

Personal portfolio website created with HTML, CSS, JavaScript, React.js, Gatsby.js, MaterialUI.

## EXTRACURRICULAR & COMMUNITY INVOLVEMENT

**Student Senate**, President of Class of 2022

Sep 2018-May 2019

Served as a representative of the Class of 2022 to the Enrollment and Student Life Committee and the Student government.

**Math and Computer Science Club**, Treasurer

Sep 2021-Present

Supported more than 100 club members by allocating adequate club funds to various departmental events.

**Competitive Programming Club**, Team A Member

Sep 2021-Present

Participated in ICPC 2021 Mid-Atlantic Regional competition and weekly competitive programming practice workshops.

## HONORS

**Scholarship:** John Montgomery Scholarship (Top 5% of Class), Trustee Scholarship (Merit-based)

**Academic honors:** Dean's List (All semesters), Alpha Lambda Delta (National Honor Society for First-Year Success)

**Others:** US Army Achievement Medal (2020), EARCOS Global Citizenship Award (2017)