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 decreased 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); 2nd 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)