

Jingyu (Marcel) Lee

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EDUCATION

Dickinson College Carlisle, PA

Expected graduation: May 2024

GPA: 3.99/4.0

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

Relevant Courses: Data Structures and Algorithms, Artificial Intelligence, Computer Networks, Programming Language Structure, Computation and Complexity Theory, Open-Source Software Development, Objected Oriented Programming, Computing Abstraction, Numerical Methods, Operation Research, Linear Algebra, Calculus III, Advanced Econometrics

SKILLS

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

Frameworks/Tools: Git, Docker, Kubernetes, Helm, Maven, JDBC, Spring, HTML, CSS, React.js, Vue.js, Node.js, Express.js, jQuery, Cypress, Pandas, NumPy, Matplotlib, PYODBC, MySQL, MariaDB, MongoDB, InterSystems IRIS, LaTeX, Confluence, Jira

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

WORK EXPERIENCE

InterSystems Corporation

New York, NY

Solutions Developer Intern

May 2023-Aug 2023

- Developed JDBC-based connector solution for real-time persistence of Financial Information eXchange (FIX) protocol.
- Built automated schema inferring mechanism to enable ETL workflow pipeline configured with user-defined HOCON.
- Extended existing connector framework to load balance data stream using consumer-producer design pattern.
- Published microservice to K8s Cluster with Helm and Spring on distributed data platform designed for financial services.

FarmData2

Carlisle, PA

Software Development Intern

June 2022-May 2023

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

PROJECTS

Frody Google Cloud Platform, Spring Boot, React, Firebase, Google BigQuery, Twilio API [<https://devpost.com/software/temptemp>]

First place in PennApps 2023 Five Rings Best Distributed Systems Track and Most Technically Complex Track

A real-time credit card fraud detection microservice on the cloud that immediately notifies users about fraudulent activities.

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 Polkadot Parachain that allows users to mint NFTs that enable return to the original creator.

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

A full-stack web application that records users' past trip information and respective carbon footprints.

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), International Student Grant, Trustee Scholarship (Merit-based)

Academic honors: Dean's List (All semesters), Alpha Lambda Delta (Honor Society), Upsilon Pi Epsilon (CS Honor Society)

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