Ratanak Rin

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Education

State University of New York, Stony Brook   Stony Brook, NY
Bachelor of Science in Computer Science

GPA: 3.31

Relevant Coursework: Object-Oriented Programming, Artificial Intelligence, Computer Security, NLP

Work Experience

CAIMI Co., Ltd.   Incheon, Korea
Software Engineer Intern   June 2022 - November 2022

- Developed an image annotation software using **Python** and **OpenCv2** library to detect lesions in real-time, improving diagnostic accuracy.
- Designed and implemented the UI of a medical desktop application using **PyQt5**, enhancing visualization of lesion measurements.
- Built a CI/CD pipeline in **GitLab** leveraging **Docker**, automating 6 out of 8 manual deployment tasks.

Tangram Factory Inc.   Seoul, Korea
Web Developer Intern   June 2021 - August 2021

- Collaborated on developing a product's single-page application using **React.js**, improving user experience with engaging animations.
- Performed **SQL queries** to optimize data retrieval, reducing front-end population time by 30%.
- Integrated a complex payment service compatible with modern payment with **Shopify**.

Projects

Personal Portfolio Website – [Portfolio Link]

MapBook – [Github]

Capstone Project   August 2023 - December 2023

- Collaborated with a team of 4 peers to develop a web application that creates and renders maps from GeoJSON, Shape, and KML files using **MERN** stack and **Firebase SDK** for files storage.
- Automated build, testing, and deployment with **Github Actions**, achieving 85% faster deployment times.
- Achieved 80% code coverage with end-to-end and component testing using **Jest** and **Cypress**.

Vital – [Github]

MLH Hackathon 2024 - Best Health Project Award Winner   February 2024

- Built an AI-powered web recommender for dietary supplements with **React.js** and **HuggingFace's** pretrained sentiment analysis model, achieving 95% user satisfaction from 50+ testers.
- Implemented a **Python-Node** child process running on an **Express** server to seamlessly integrate the AI model, enhancing the system's scalability and performance.
- Cleaned and prepared 10,000+ data points with **Pandas**, reducing data preparation time by 15% and improving model wording precision.

Technical Skills

Programming Languages: Python, Java, C, JavaScript, HTML, CSS, SQL, Shell Scripts

Others: Git, React.js, Typescript, Redux, Django, FastAPI, GraphQL, MongoDB, Docker, HuggingFace

Honors and Awards

Vice President of SUNY Korea Computing Society   August 2022 - December 2022

- Worked closely with university faculties to organize various CS events for students including seminars and weekly coding challenges.

Be a Venture Creator Runner Up, SUNY Korea   December 2022

- Developed a fitness app prototype matching trainers with trainees using AI in a team of four peers.