

# Ratanak Rin

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## Education

**State University of New York, Stony Brook**

*Bachelor of Science in Computer Science*

Stony Brook, NY

Jan. 2020 - May 2024

Relevant Coursework: Data Structures & Algorithms, Software Engineering, Natural Language Processing

## Work Experience

**CAIMI Co., Ltd.**

*Software Engineer*

Incheon, Korea

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**, improving lesion measurement visualization for over 200 medical professionals and enhancing data accuracy by 25%.
- Built a CI/CD pipeline in **GitLab** leveraging **Docker**, automating 6 out of 8 manual deployment tasks.

**Tangram Factory Inc.**

*Web Developer Intern*

Seoul, Korea

June 2021 - August 2021

- Collaborated on developing a product's single-page application with engaging animations using **React.js**, improving user retention by 20%.
- 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 stored files using **Firestore** Cloud 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.
- Enhanced the system's scalability and performance by seamlessly integrating the AI model through a **Python-Node** child process running on an **Express** server.
- Cleaned and prepared 10,000+ data points with **Pandas**, reducing data preparation time by 15% and improving model wording precision.

## Skills

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

Others: Git, React.js, Typescript, Redux, Django, FastAPI, GraphQL, Docker, Apache Kafka, AWS Services

## Honors and Awards

**Vice President of SUNY Korea Computing Society**

August 2022 - December 2022

- Worked closely with university faculties to organize 4 major Computer Science events throughout the semester 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.