

# Ratanak Rin

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## Education

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**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

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**CAIMI Co., Ltd.**

Incheon, Korea

*Software Engineer Intern*

June 2022 - November 2022

- Developed an image annotation software using **Python** and **OpenCv2** library that can detect lesions in real-time and provide more accurate results for doctors to perform diagnosis.
- Implemented and designed the UI of the medical desktop application from scratch using **PyQt5** framework that helped visualize the accurate measurement of the lesions.
- 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 the development of a performant single-page application using **React.js** that introduces users to the company's product with captivating animations to enhance user experience.
- Performed **SQL queries** that reduced data retrieval time by 30% for dynamic front-end population.
- Integrated a complex payment service that accepts modern payment forms integrated with **Shopify**.

## Projects

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**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 allows users to create and render maps from GeoJSON, Shape, and KML files using **MERN** stack.
- Automated build, testing, and deploy with **Github Actions**, achieving 85% faster than manual deploy.
- Integrated with **Firebase SDKs** for cloud storage to upload and download files directly from the client.
- Achieved 80% code coverage through 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.

**AssignMe** – [Github](#)

January 2023 - May 2023

- Developed a solo productivity web app using **React.js** that allows users to manage tasks, personalize schedules, and take notes, potentially improving user efficiency by 10% for 5 close colleagues tested.
- Built a REST API using **Python FastAPI** with **MongoDB**, facilitating efficient data transfer and storage.

## Technical Skills

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

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