

# Samuel Han

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## Education:

### State University of New York, Stony Brook

College of Engineering and Applied Sciences, Computer Science, Class of 2024

Cumulative GPA: 3.50/4.0, Major GPA: 3.6/4.0

Stony Brook, New York

August 2020 – Present

## Professional Experience:

### Wayne Inc.

Software Test/IT Intern

June 2023 – August 2023

- Open-source OS project contribution by reading and analyzing code written in **C++** and **python** to test and identify defects on developing operating system
- Data migration from **GitLab** to **GitHub** using **Git Large File Storage (LFS)**
- Hardware compatibility testing for given OS – analyzed specifications of 100 computers using **Linux commands** to test the developing OS compatibility with the computer

### 4STEC

June 2022 – August 2022

Front-end Software Engineer Intern

- Front end development in the RFID / IoT Records Management team: created the frontend of the 5 pages from scratch for a railroad monitoring system using **React**
- Assisted in connecting the frontend and the backend of the website using Node and **Axios** and pushed all code to **GitHub**

### SUNY Korea

August 2021 – December 2022

Teaching Assistant (TA)

- Assisted professor for computer science major class “Object Oriented Programming”
- Held office hours (8.5 hours/week) - responded to inquiries and supported students on class material

## Technical Skills:

- Languages: Java, Python, C, JavaScript, Scheme, MIPS
- React, Next.js, Node, Express, MongoDB, Firebase, SQL, Redux, Docker, HTML, CSS, Bootstrap, Material UI, Cypress, Heroku, Git, Postman
- HTTP protocol, CI/CD, Agile Development

## Projects:

### Cryptocurrency Recommender | Python, NLTK, Sentiment Analysis, Machine learning – [GitHub Link](#)

January 2024

- Fetched Reddit posts from the subreddit r/CryptoCurrency using the Reddit API and preprocessed the textual data by removing stop words and stemming them to prepare for analysis
- Performed sentiment analysis using the NLTK Naïve Bayes sentiment analyzer to score probability of recommending a specific cryptocurrency
- Compared the sentiment data with the live cryptocurrency market and generated a list of recommended cryptocurrencies to invest in
- Trained and tested prepared data using the random forest classifier and achieved a confidence level of up to 85.7%

### MapBook | React, Node, Express, MongoDB, Firebase, Redux, Heroku, Cypress/Jest, CI/CD - [Website link](#), [Document Link](#)

Capstone Project

August 2023 – December 2023

- Developed a full stack website with 3 other classmates where users can create an account and create/edit/export/share various geographical maps
- Implemented the front-end with **React**, **Node**, **Redux**, and **Material UI**, and **Mapbox** for generating and editing maps from GeoJSON, KML, and SHP files
- Implemented the backend, creating **RESTful APIs** and using **JSON Web Tokens** for user authorization
- Created 20+ end-to-end tests with **Cypress** to validate critical workflows and unit tests with **Jest** to test the back-end APIs

### Day Logger | React, Node, Express, MongoDB, Material UI, Heroku, Netlify

August 2022 – December 2022

- Implemented a full stack website using **React**, **Node**, **Express**, and **MongoDB** that keeps track of daily activities based on questions and responses in a group of 2, and deployed it using **Heroku**

## Relevant Coursework:

Object Oriented Programming, Data Structures and Algorithms, Computer Networks, Machine Learning, Software Development

## Relevant Experience:

### SUNY Korea Computing Society (SKCS)

August 2022 – December 2022

President

- Organized weekly assemblies with 50+ club members to practice solving algorithm problems, had workshops with computer science professors and notable alumni, and organized large-scale tech-related events

### SUNY Korea

May 2023

Hackathon – Runner up

- Developed a web application with 3 other teammates that allows users to browse and sign up for short-term classes held by educators
- Implemented the front-end using **React** and **Material UI**, and implemented the back-end using **Node** and **MongoDB**

## Interests and Languages:

- **Languages:** Proficient in English, Korean, and Japanese
- **Interests:** YouTube content creation (150k+ views), Video editing, Intramural Soccer