

Yu (Alex) Yan

347-941-8081 | alex.yan@nyu.edu | [linkedin.com/in/alexyuyan/](https://www.linkedin.com/in/alexyuyan/) | github.com/Alex-YuYan | alexyan.me

SUMMARY

Third-year undergraduate Computer Science student actively seeking a software engineer internship position for summer 2023. Experience with projects in web development and machine learning. Familiarity with programming languages such as Java, Python, Golang, JavaScript, and popular tech stacks like MERN, Spring Boot, Flask, and React.

EDUCATION

New York University

Sep 2020 - May 2024

Bachelor of Science, Computer Science

New York, NY

GPA: 3.9/4.0 Dean's List, Nick Russo Award

Relevant Courses: *Data Structures and Algorithm, Object-Oriented Programming, Computer Organization, Operating System, Machine Learning, Distributed Systems, Agile Development, Cloud Computing*

EXPERIENCE

Undergraduate Machine Learning Research Intern

May 2022 – Present

NYU AI4CE Lab

New York, NY

- Developing a scene summarization algorithm to extract key frames of given video footage using **PyTorch**
- Collaborating with a team of researchers and contributing to ongoing projects related to scene summarization
- Devised a new benchmark baseline for summarizing videos containing geological data for future references
- Conducted a comprehensive literature review to stay updated on the latest advancements in the field

Software Development Engineer Intern

May 2021 – Aug 2021

China Telecom Co., Ltd

Shenzhen, China

- Developed a new notification system for the customer reward website using **Vue** and responsive design
- Optimized **RESTful** APIs with **Spring Boot**, resulting in an 80% efficiency improvement on specific endpoints
- Restructured existing **Oracle SQL** scripts for user data analysis to include more precise ARPU calculations
- Refined user portrait generation process for 40% more pivots in collaboration with customer support department

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, Go, HTML/CSS, SQL, C/C++

Frameworks: Node.js, Spring Boot, Flask, React, Vue, Firebase, MongoDB, Tailwind CSS

Developer Tools: Git, Conda, Heroku, AWS, Vim, JetBrains IDEs

PROJECTS

Flight-Loggers

- Designed and developed a full-stack web app for logging and sharing flight information for aviation enthusiasts
- Implemented **Spring Boot** as **RESTful** web services for data access, manipulation, and user authentication
- Created a front-end interface using **React** and **Tailwind CSS** to allow users to upload and view their flight logs
- Integrated **MySQL** databases with **Hibernate** for flight log and user info storage and management

Online Chat Room

- Utilized **React** for dynamic and efficient updates to the chatroom, such as message sending, receiving, and display
- Implemented Google login user authentication and data synchronization using **Firebase** and Firestore database
- Designed and incorporated a fully responsive and user-friendly interface with **Tailwind CSS**
- Deployed the application on **Heroku** for seamless access by users, ensuring high availability and reliability

NYU Tandon CSSA Website

- Developed and maintaining the official website for NYU Chinese Students & Scholars Association as lead developer
- Implemented **Material-UI** for a modern responsive design and utilized **React Router** for easy navigation
- Led a group of five in development and coordinated the project CI/CD pipeline, deployed to **Github Pages**
- Worked closely with other departments of CSSA to improve user analytics and information management