

Yu Yan

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SUMMARY

Bachelor in Computer Science candidate with wide industry and project experience in full-stack development, seeking full-time software engineering roles. Proficient in Java, Python, Golang, and JavaScript; Developed and deployed projects using Spring, Flask, and React; Ready to leverage technical skills and collaborate in real work.

EDUCATION

New York University

Bachelor of Science in Computer Science

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

Sep. 2020 - May 2024 (Expected)

New York, NY

EXPERIENCE

Software Development Engineer Intern

Baidu

May 2023 – Present

Shenzhen, China

- Led prompt engineering and developed APIs to incorporate **Ernie Bot LLM** into Intelligent Cockpit products
- Migrated over 30 legacy **PHP** API endpoints to **Go**, achieving up to a **60%** increase in overall performance
- Optimized latency on specific query endpoints by **80%** using **Redis** for cached responses and persistent storage

Machine Learning Research Assistant

NYU AI4CE Lab

May 2022 – Present

New York, NY

- Devised a novel benchmark pipeline for scene summarization, a branch of deep-learning-based video summarization
- Employed **PyTorch** to reproduce multiple baseline implementations of video summarization tasks on Habitat-Sim
- Performed elaborated data analysis and visualized more than **300** result sets with **NumPy**, **SciPy**, and **Pandas**

Software Development Engineer Intern

China Telecom

May 2021 – Aug. 2021

Shenzhen, China

- Optimized **RESTful** APIs in **Spring Web**, empowering an 80% efficiency improvement on specific endpoints
- Restructured existing **Oracle SQL** scripts for data analysis, enhancing the precision of user portrait generation
- Developed a front-end notification component set under the **Vue** framework to accomplish **responsive design**

TECHNICAL SKILLS

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

Frameworks & Databases: Spring, Node.js, React, Vite, Tailwind CSS, MongoDB, MySQL, Redis, Elastic Search

Platforms & Developer Tools: AWS, Heroku, Docker, Kubernetes, Git, Conda, Linux, Vim, JetBrains IDEs

PROJECTS

Flightloggers.Club

- Conceptualized and developed a full-stack web application for aviation enthusiasts to log & share flight experiences
- Architected a user-friendly front-end using **React** and **Tailwind CSS**, enhancing UX and user engagement
- Integrated **MongoDB NoSQL** database and deployed on Atlas for optimized throughput and reduced latency
- Deployed on **Heroku** PaaS cloud service for better accessibility worldwide and dedicated monitoring

Resumate

- Developed a cloud-native web application using **React.js** and **AWS** serverless architecture for resume matching
- Utilized **AWS Cognito**, **DynamoDB**, and **IVS** for authentication, persistent storage, and instant messaging
- Integrated the **GPT-3** API for extracting vector embedding from resume and **Pinecone** for vector database
- Leveraged message queue with **AWS SQS** and email service using **SES**, deployed on **S3** for high availability

Interactive Image Gallery

- Built a web application for users to store and search images using text and voice with **AWS** as serverless backend
- Achieved efficient **NLP** and **NLU** with **AWS Lex** and high throughput with **AWS API gateway** and **Lambda**
- Endorsed **AWS Rekognition** ML model for content detection and **AWS Transcribe** for speech recognition
- Adopted **Elastic Search** for reverse-indexing image labels to **AWS S3** storage, elevating resource accessibility