Sophie Yang

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EDUCATION

University of Waterloo — Waterloo, ON
Bachelor of Applied Science in Systems Design Engineering — *2024 – 2029*

EXPERIENCE

Fullstack Developer — Jan 2025 – April 2025
Royal Bank of Canada
- Engineering Python backend applications using FastAPI, integrating a risk engine to analyze firewall configurations and reduce access request processing time by 93%
- Implemented CI/CD pipelines with Docker and Kubernetes for automated building, testing, and deployment of containerized applications

Software Engineer Intern — Feb 2025 – Present
Greptile (YC 24)
- Develop a Git stats tool with Python, Typescript and Next.JS that gives developers insights into their GitHub activity including developer contributions and contribution trends generated with AI gaining 150+ users

Software Engineer Intern — July 2023 – Aug 2023, July 2024 – Aug 2024
Royal Bank of Canada
- Developed an API assessor within the RBC Internal Developers Portal working under the API and Automation team for 3500+ Internal APIs and 80000+ developers
- Collaborated with cross-functional teams to implement DevOps best practices with the Agile development framework in collaboration with new technologies: React, Golang, and MongoDB
- Engineered a solution to automate the archiving of 14MM client consent forms, eliminating $300,000 in paid loss premiums, pitched to insurance partners and implemented into production
- Led the development of a document-sharing feature for ticketing systems using SpringBoot, Maven, and React

Project Manager/UX Intern — Nov 2022 – May 2023
Wizeprep
- Led high-school expansion project as the first high-school intern of 200+ employees after successful pitch to CEO, executing 4 edtech campaigns, leading to 80000+ overall impressions and increased conversion rate
- Pitched and executed focus groups for 20+ high school students to gather insights on social media consumption patterns

PROJECTS

Chime | *Typescript, Django, Flask, AWS, PostgreSQL, MongoDB, Numpy, Surprise, Scikit* — Dec 2024 – Present
- Developing a Tinder-like full-stack platform for discovering new music with playlist creation
- Training a machine learning model for a collaborative-content based hybrid recommendation system with Matrix Factorization, KNN, and Deep Learning (Keras) algorithms to provide real-time suggestions for users

FlockStock | *React, Tailwind CSS, Python, Flask, OpenAI, ElevenLabs* — October 2024
- Built an inclusive fintech investment platform using real-time stock analysis, 3D models, and multithreaded AI for personalized investing advice
- Won Finalist at the TechNova Hackathon out of 47 unique projects

Content-based and Collaborative Movie Recommendation System | *Python* — Nov 2024
- Built a content-based and collaborative filtering book and movie recommendation system in Python using cosine similarity and matrix factorization, optimizing user preference predictions based on 1M dataset entries with 97.2% accuracy

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Golang, C++
Frameworks: React.js, Next.js, Node.js, Django, Flask, Firebase, MongoDB, Jest, SpringBoot, Maven, FastAPI
Developer Tools: Figma, Swagger, Git, Tensorflow, MATLAB, Jupyter, Jira, Llama/Groq
Databases: SQL, PostgreSQL