

JAMIE HU

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EDUCATION

University of Toronto

September 2022 - May 2026

Bachelor's, Computer Science

- Relevant Coursework: Intro. Software Engineering, Computer Organization, Cybersecurity, Web Programming, Data Structures and Algorithms, Databases, Machine Learning
- Campus Involvement: UTM Google Developer Student Club, UTM Robotics, Uoft CTF, Deerhacks, Uoft GenAI Genesis

PROFESSIONAL EXPERIENCE

Mozilla

Toronto, ON, Canada

Fullstack Software Engineering Intern

May 2025 - Present

- Migrated a public-facing GraphQL implementation to Django REST Framework, enhancing system reliability and maintainability while reducing average fetch times by 67% through optimized query handling
- Developed a custom Personal Access Token (PAT) system to securely authenticate localizers accessing sensitive data, with built-in support for token hashing, expiration, and revocation.
- Implemented end-to-end API test coverage using Pytest and Django's testing framework, preventing regressions and ensuring robust integration across localization workflows.
- Refactored a hybrid codebase by modernizing legacy jQuery and AJAX into modular React components, improving performance and developer experience

Bellwoods Strategic Capital

Toronto, ON, Canada

Software Engineering Intern

September 2024 - December 2024

- Collaborated with a team of developers to implement a Full-Stack Mobile Application which delivers personalized micro-tasks to enhance mental and physical well-being
- Optimized API interactions and refactored the React Native front-end, contributing over 15,000 lines of code and achieving a 20% reduction in average load times
- Deployed Django backend with Docker, utilizing Heroku for scalable hosting and automated database migrations
- Built RESTful API endpoints using Django Rest Framework, integrated with PostgreSQL models and serializers, to enable seamless frontend/backend communication

PROJECTS

StockSearch | Python, React, Django Rest Framework, MySQL, Tailwind CSS, Git

- Developed a full stack web application using Django and React that provides access to historical financial data on public companies monitored by the SEC
- Employed MySQL and conducted queries on a database of over 13 million+ datapoints, gaining insights on general market performance in the US
- Aggregated custom 10-K & 10-Q data from 8000+ companies using Jupyter Notebook, Pandas and SQLAlchemy
- Utilized React, Tailwind CSS and Daisy UI to design and implement a cohesive user interface

Flynex | Typescript, Next.js, React, Prisma, PostgreSQL, Tailwind CSS, AWS EC2, Docker, Postman, Git

- Developed a full-stack travel platform with flight and hotel search, hotel management, and user itinerary dashboards using React, with TypeScript for enhanced type safety
- Built scalable RESTful APIs with Next.js routing to handle booking and retrieval of travel data, tested endpoints using Postman
- Managed database schema and queries using Prisma ORM, migrating from SQLite3 to PostgreSQL to improve scalability for production environments
- Crafted a responsive UI with Tailwind CSS, enhancing UX through dynamic tables and device-responsive design

SKILLS

Languages: Python, Java, JavaScript, TypeScript, C/C++, Bash, R, HTML/CSS, SQL, MIPS Assembly

Developer Tools: Git, Docker, PostgreSQL, MySQL, GCP, Heroku, Postman, Expo, Jupyter

Technologies/Frameworks: Node.js, React, Next.js, Spring Boot, Django Rest Framework, Flask, Jinja2, Pytest, Jest

Libraries: Pandas, Bootstrap, SQLAlchemy, NumPy, Sequelize, Prisma, React Router, Tailwind CSS