

Landon Trinh

✉ landon.trinh@uwaterloo.ca | 🏠 landontrinh.com | 🌐 landontrinh | 📀 landont168

SKILLS

Languages: Python, TypeScript, JavaScript, C/C++, SQL, HTML/CSS

Technologies: React, Redux, Next.js, Node.js, Express.js, Django, Flask, Tailwind CSS

Tools: Git, Linux, AWS, PostgreSQL, MongoDB, Docker, Postman, Bash

EXPERIENCE

WSIB Ontario

Jan. 2025 – Present

Full-Stack Developer Intern | React, Tailwind CSS, Python, Flask

Waterloo, ON

- Developed the frontend for an accommodations dashboard aimed at supporting injured workers, transforming Figma designs into responsive, accessible components using **React** and **Tailwind CSS**
- Built a role-based user authentication system with **Flask** and **Azure SQL Database**, implementing JWT tokens and email verification for enhanced security and user validation
- Refactored React components by encapsulating API interactions, creating custom hooks, and developing reusable UI components, enhancing design consistency and code reusability

Arteria AI

May 2024 – Aug. 2024

Data Annotator Intern | Python, PostgreSQL, Django

Toronto, ON

- Led the development of an internal data annotation system by creating a **Python** module that integrates a **pgvector** database to identify and remove redundant data using semantic similarity, boosting ML dataset quality
- Designed a **SQL** schema to model and store text annotations in a **PostgreSQL** database, establishing a centralized repository to support NLP training and testing workflows
- Developed a data ingestion pipeline with a **Django** API endpoint, enabling users to seamlessly upload annotated datasets through an intuitive UI built with HTML and Bootstrap
- Implemented error-handling middleware to manage empty **WebSocket** responses, ensuring reliable and efficient document retrieval from the public EDGAR API

PROJECTS

Stockle.ca | React, Node.js, Express.js, MongoDB, AWS

- Developed and deployed a full-stack stock-themed web game with a modular and scalable MVC architecture
- Implemented a secure user authentication **REST API** using **Express** and **MongoDB**, enhancing data protection by integrating bcrypt for password hashing and JWT for stateless authentication
- Deployed a **Node.js** backend to **AWS ECS** with **Docker** and **EC2**, optimizing performance and scalability through auto-scaling and load balancing configurations
- Refactored global state management by adopting a Flux architecture with **Redux**, reducing prop drilling by 53%
- Designed an interactive UI/UX by building a responsive **React** frontend using Material UI and Chart.js
- Automated a **Python** ETL pipeline to process, retrieve, and store financial data for 2,000 stocks in MongoDB

Portfolio Roboadvisor | Python, Yahoo Finance API

- Created a **Python** script that analyzes historical stock data and conducts a Monte Carlo simulation to generate a low-risk portfolio given a list of random stocks, achieving a portfolio with a 20% return YTD
- Optimized data pipeline by reducing **Yahoo Finance API** calls by 48% through efficient ETL implementations
- Leveraged pandas for data manipulation and analysis, computing optimal weights for 10,000 random portfolios based on financial metrics, and presented insights through Matplotlib visualizations

CERTIFICATIONS

Full Stack Open

Jul. 2024

Completed a JavaScript-based web development course offered by the University of Helsinki, focused on building single page applications with React that use REST APIs built with Node.js.

EDUCATION

University of Waterloo

Sep. 2023 – Apr. 2028

Candidate for Bachelor of Computing and Financial Management

GPA: 3.9 (89.6%)

- **Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Functional Programming
- **Awards:** CFM Academic Achievement Award, Linda Young Scholarship in Accounting and Finance