LANDON TRINH

✉ landon.trinh@uwaterloo.ca | 🔗 landontrinh | ⌨ landont168

SKILLS

Languages: TypeScript, Python, C, C++, SQL, HTML, CSS
Technologies: React, Redux, Node.js, Express.js, Django, Flask, Tailwind CSS
Tools: Git, Linux, Bash, AWS, PostgreSQL, MongoDB, Docker, Postman

EXPERIENCE

WSIB Ontario   Jan. 2025 – Present
Full-Stack Developer Intern | JavaScript, React, Tailwind CSS   *Waterloo, ON*
- Implementing the frontend for an **accommodations dashboard** using **React** and **Tailwind CSS**, translating **Figma** designs into responsive and accessible UI components
- Refactoring existing React components to improve maintainability by encapsulating API interactions, reducing technical debt, and adhering to best practices for clean and scalable code
- Designing the system architecture for an internal **RAG chatbot** using Microsoft Azure services, ensuring alignment with user requirements and scalability considerations

Arteria AI   May 2024 – Aug. 2024
Backend Developer Intern | Python, PostgreSQL, Django   *Toronto, ON*
- Led the development of an internal data annotation system by creating a **Python** module that integrates a vector database to identify and remove redundant data using semantic similarity, boosting ML dataset quality by 15%
- 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

EDUCATION

University of Waterloo   Sep. 2023 – Apr. 2028
Candidate for Bachelor of Computing and Financial Management
- **GPA:** 3.88 (89.6%)
- **Coursework**: Data Structures and Algorithms, Object-Oriented Programming, Functional Programming
- **Awards:** CFM Undergraduate Achievement Award, Linda Young Scholarship in Accounting & Finance