Vaughan Love | Software Engineer

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Objective

To obtain a challenging software engineering role where I can collaborate within a motivated and talented team. Open to relocation and/or remote work.

Experience

Software Engineer (Full Stack) | Centre for Health Informatics | Calgary, Alberta **01/2024 - Present**

- Independently developed and maintained rh2c.org, a global refugee health app. Frontend developed with Remix and React (TypeScript), hosted on Azure. Backend and authentication with Postgres.
- Created novel AI system for validated automated systematic reviews. Reduced man-hours by 75% on 100+ hour projects. Trained and deployed healthcare models using PyTorch for clinical use.
- Interfaced directly with non-technical teams (internal, independent research teams, World Health Organization) to build the product from ideation to deployment. Weekly collaboration with stakeholders to establish goals, inputs, timelines, and coordination.
- Solved complex problems designing a robust and secure data pipeline using advanced database design (postgres triggers/functions, row-level security, role-based access, sql).

Quantitative Developer | Feta Markets | Remote **05/2022 - 10/2022**

- Cleaned and preprocessed hundreds of millions of rows of data using pandas (Python).
- Back-tested different options writing strategies to mitigate platform risk.

Junior Data Analyst | Global Predictions | San Francisco **06/2021 - 01/2022**

- Programmatic data analysis of a massive set of macroeconomic features using Python.

Undergraduate Researcher | University of Calgary | Calgary, Alberta **05/2021 - 05/2021**

- Used the KINARM exoskeleton to collect data and research the impact vision has on the recovery of proprioception in stroke patients. Analysis in MATLAB and Python.

Education

Queen's University, BASc Applied Mathematics Engineering

Major: Applied Mathematics | Minor: Computing

Activities

Personal Projects – all available at vaughanlove.github.io **2019 - Present**

- Enthusiastic about trying new technologies from zkDSLs to web development.
- Zero Knowledge Sudoku – project, prove a board is complete without exposing the user's input. **Jan 2025**
- BetMore – rabbit capital hackathon, wager app for trivia questions using LLMs and stablecoins. **Nov 2024**
- malaconnect – founding engineer, healthcare navigation for elders. **Apr 2024**
- pintxo – founding engineer, API for developers to execute on-chain functions from language. **Feb 2024**
- gecover – hackathon, a cover letter generator from LinkedIn URLs. **Nov 2023**
- promptbreeder – project, google deepmind prompt optimization paper implemented in python. Used by Cambridge researchers. **Oct 2023**
- ezserve – hackathon, embedded AI tableside restaurant waiter built to run on a Raspberry Pi. **Sep 2023**
- sui marketplace – project, escrow marketplace program for the sui blockchain **Jul 2022**
- mojodao – project, subscription program for the Solana blockchain. **Aug 2021**

Breakpoint Global Fellow **11/2021**

- Developed subscription infrastructure for the Solana developer ecosystem and was sponsored to attend breakpoint 2021.

Tech Lead **08/2020 - 03/2021**

- Developed NOTIFAI, an AI notification manager while in QMIND. Presented nationally at CUCAI.

Skills & abilities

Remix, nginx, critical thinking, leadership, communication, React, flask, NextJS, python, MATLAB, Docker, AWS, Azure, Lets Encrypt, language models, FastAPI, Rust, cloud computing, JavaScript, TypeScript.