Tommy Huang

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EXPERIENCE

Arctic Wolf — Waterloo, ON
Software Developer — *Sept 2023 – Dec 2023*
- Utilized the Python ML library scikit-learn to train an ensemble of AI models, used in a developer tool for predicting new integration field mappings
- Developed and deployed an integration of Microsoft Defender for Office 365 with Arctic Wolf's services
- Fixed bugs related to the parsing of logs received from Barracuda which had unusual or custom formats

Vretta Inc. — Toronto, ON
Data Engineer — *May 2023 – Aug 2023*
- Sped up long data exports by 60% by adding functionality to the backend Feathers server to automatically scale up the AWS cluster during lengthy tasks
- Developed an Express API which allowed students to transfer to other course sections, taking into account related assignments and lessons
- Wrote SQL queries to automate data validation for a complex set of more than 50 rules

Arctic Wolf — Waterloo, ON
Security Developer — *May 2022 – Aug 2022*
- Enhanced an internal Python tool used for security investigations, allowing developers to automatically download data, run it through the tool, and then view a summary of the outcome
- Created tests to verify that several hundred symbolic links in different folders exist and resolve to the correct file
- Fixed a tool used daily by security developers to help classify ransomware and automatically create configuration changes by correcting how it pushes changes to the Git repository

DarwinAI — Waterloo, ON
Full Stack Developer — *Sep 2021 – Dec 2021*
- Expanded Node.js and Flask services to allow images of manufactured parts sent by users to be processed for defect detection using AI
- Collaborated with other developers in an agile team to create an Angular image viewer that allows a user to inspect an image and provide feedback on the AI defect detection and classification
- Wrote unit tests using Jest and Pytest for various backend applications to ensure near 100% code coverage
- Validated the performance and behaviour of SQL functions and backend services by creating system tests which generated millions of data entries in a PostgreSQL database

PROJECTS

BillBoard — *Jan 2023 - Apr 2023*
- Developed a phone application which shows the latest parliamentary bills and provides a summary of them
- Users can comment and vote on bills, with the intention of giving more direct feedback to the Members of Parliament on which issues they agree or disagree with.

Vm — *Nov 2020 – Dec 2020*
- Designed a Vim-like text editor using object-oriented design principles and the Model-View-Controller pattern.
- Developed the program from scratch using C++ and the ncurses library.

SKILLS

Languages: Python, TypeScript, Javascript, SQL, C++, C#, Kotlin, Bash
Tools/Frameworks: Git, Linux, MongoDB, Node, Express, Feathers, Flask

EDUCATION

University of Waterloo — Waterloo, ON
Bachelors of Computer Science, Honours; GPA: 91.8 — *Sep 2019 – Apr 2024*