Tommy Huang

tommyhuang.net

Email: tommyhuang999@gmail.com
Phone: +1 647-609-7078

EXPERIENCE

Arctic Wolf   Waterloo, ON
Software Developer   *Sept 2023 – Dec 2023*
- Trained an ensemble of AI models using Python libraries such as scikit-learn and sentence-transformers, and used them to develop a 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*
- Designed and programmed an application powered by React, Node, and MongoDB to show the latest parliamentary bills and provides a summary of them
- Users can comment and vote on bills to provide direct feedback to their representatives on important issues.

Vm   *Nov 2020 – Dec 2020*
- Wrote a Vim-like text editor using C++, following object-oriented design principles and the Model-View-Controller pattern.

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*