Jeffrey Wu

3B Mechatronics | jeffrey.wu@uwaterloo.ca | github.com/wu-jeffrey | linkedin.com/in/jeff--wu | jeffwu.me

Skills

Languages & Frontend: Javascript, Ruby, C++, C, React, Angular, D3, WebRTC, Advanced CSS & Animation
DevTools & Backend: Rails, Node, SQL, MongoDB, Socket.io, REST, GraphQL, Firebase, Git

Work Experience

Shopify | Backend Developer
Sep 2020 — Dec 2020

- Adapted the API to allow Shopify ecosystem apps to consistently handle recurring billing failures as a part of the critical priority Subscriptions API project.
- Sped up the development environment startup by 10 minutes by automating a manual install process for themes.

Shopify (Plus) | Fullstack Developer
Jan 2020 — Apr 2020

- Created an internal library to facilitate pre-launch load testing, allowing 5 teams to leverage the existing internal load testing framework for their projects and ensure launch readiness.
- Revamped Google Calendar integration to allow viewing office lunch and breakfast menus up to a month in advance globally for all Shopify employees.
- Resolved a launch blocking UI issue without rebuilding external packages by clever use of CSS.

MyTime | Fullstack Engineer
Apr 2019 — Aug 2019

- Increased internal dashboard page performance by ~750% by decreasing SQL query times from 1.9s to 250ms using Rails database indexing, join ordering and caching.
- Built a solution to the Billing Nightmare, allowing the CEO to aggregate data for High-Value Clients' with multiple subscriptions that could not be billed programmatically.

Mitre Media | Web Developer
Sep 2018 — Dec 2019

- Doubled premium subscription sign ups originating from the search page by adding a daily limit to financial stock search functionality.
- Discovered and fixed a mismatch between production and 3rd-party databases regularly causing 500+ email newsletters to be missent.

Projects

Lego 3-Axis Camera Stabilizer
[click me to see more!]()

- Built a gimbal from Lego with servo motors and gyroscope sensors. Implemented a PID algorithm in C to affix a phone camera in 3D space within 15 degrees of accuracy

Nutrition Tracker Web Application

- Faster macronutrient input and streamlined usage when compared to popular nutrition trackers. With access to a Food Database API, built using React and NodeJS.

Education

B.A.Sc. Mechatronics Engineering — University of Waterloo | 3.9/4.0 GPA
Sep 2017 — Apr 2022 (Expected)