

Jeffrey Huang

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Skills

- Languages: Elm, JavaScript, Go, Haskell, TypeScript, C++, HTML/CSS, SQL
- Technologies: AWS, Alexa, Azure, Cassandra, DialogFlow, Docker, ELK Stack, Git, Gulp.js, Jira, Node.js

Experience

Software Engineer

Rakuten

Sept. 2018 - Apr. 2019

Tokyo, Japan

- **Led the redesign and release** of a critical JavaScript widget that's served **over 2 million times daily** across all Rakuten services, fixing many bugs and improving **website compatibility by over 100%**.
- Spearheaded the **incubation and engineering** of a self-service dashboard that provides various data visualizations and enables effortless configuration for an internal SaaS.
- Developed the applications using **Elm, TypeScript** and **Go**. Wrote comprehensive tests, documentation and demos.
- Created **database schemas**, set up **CI/CD pipelines** and deployed the **dockerized** apps on **Kubernetes**.
- Implemented real-time application monitoring and alerting through **Kafka** and the **Elastic Stack (ELK)**.
- Managed the **long-term roadmaps** and **day-to-day tasks** for both projects.

Product Manager

Genesys

Jan. 2018 - Apr. 2018

Markham, Canada

- Led transition of the development team to an **Agile** workflow, **shortening the iteration cycle by 300%**.
- Ensured all teams and stakeholders were fully **aligned with the product vision** by facilitating cross-functional discussions and implementing collaborative development processes.
- Created **new channels of engagement** (voice, chatbots) by leveraging **natural language technology**.
- Defined product goals and deliverables by consolidating user data, customer feedback and overall strategy.

Technical Engineer

University of Waterloo Nano Robotics Group

Sept. 2016 - Present

Waterloo, Canada

- Designing and building **competition-winning microbots** smaller than the **width of a strand of hair**.
- Leading the team's recruitment and marketing efforts and mentoring new team members.

Projects

http-extras | *Elm package that improves how HTTP requests and responses are handled.*

- Developed modules offering more detailed **HTTP responses**, **convenience functions** and **API mocking**.

VideoNail | *Chrome extension to watch YouTube videos on any page, 2000+ users.*

- Increased **load speed** and **website compatibility by over 100%** by improving video player algorithms.
- **Grew user base by over 10x** in one month of joining the project after a year of stagnant growth.

StudyStart | *Multi-platform chatbot that automatically creates interactive quizzes from students' school notes.*

- Implemented an algorithm that generates questions from notes using the **Natural Language Toolkit (NLTK)** Python library. Leveraged processing power of **AWS LightSail** to run the algorithm efficiently.
- Developed and deployed the chatbot on Google Assistant, SMS and Slack using DialogFlow and Firebase.

Education

University of Waterloo

2016 - 2021 (Expected)

Computer Engineering, Honours with Co-op, Management Sciences Option

2x Dean's Honour List, 88% average, 3.8 GPA. International Baccalaureate Diploma Program Graduate.

Interests

Snowboarding (**CASI Certified Instructor**), Blogging, Functional Programming, Board Games & Video Games