

# Jeffrey Huang

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## Summary

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- Proficient with Elm, JavaScript, Go, Node.js, HTML/CSS, Docker, Git, JIRA, Agile development.
- Familiar with Haskell, C++, Python, TypeScript, Gulp.js, SQL, Apache Cassandra, DialogFlow.

## Experience

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### Software Engineer, Intern

Rakuten

Sept. 2018 - Apr. 2019

*Tokyo, Japan*

- Spearheaded the engineering of two major projects, from incubation through to release. Developed the applications using Elm, Typescript and Go. Created new database schemas, set up CI/CD pipelines, and deployed the dockerized apps using Kubernetes. Wrote comprehensive tests, documentation and demos.
- Led the redesign and release of a critical JavaScript widget that's served over 2 million times daily across all Rakuten services, fixing many critical bugs and improving website compatability by over 100%.
- Managed the long-term roadmaps and day-to-day tasks for both projects.

### Product Manager, Intern

Genesys

Jan. 2018 - Apr. 2018

*Markham, ON*

- Led the 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) for existing products by designing and developing prototypes that leverage natural language technology. .

### Technical Engineer

University of Waterloo Nano Robotics Group

Sept. 2016 - Present

*Waterloo, ON*

- Prototype, design and build competition-winning microbots smaller than the width of a strand of hair.
- Lead the team's recruitment and marketing efforts and mentor new team members.

## Projects

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**http-extras** | *Elm package offering more detailed HTTP responses, convenience functions and API mocking.*

- Developed various modules that improve how HTTP requests and responses are handled in Elm.

**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 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

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### University of Waterloo

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

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

2016 - 2021 (Expected)

## Interests

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Snowboarding (CASI Certified Instructor), Board Games & Video Games, Sports, Traveling