

# Jeffrey Huang

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## Skills

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- **Languages:** JavaScript, C++, Python, Java, SQL, NoSQL, HTML/CSS, Assembly
- **Technologies:** Node, Express, Flask, Socket.io, DialogFlow, Alexa Skills Kit, Bootstrap, jQuery
- **Tools:** Git, JIRA, Confluence, Firebase, AWS, MS SQL Server, Matlab, Arduino, LaTeX

## Experience

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### Product Manager

Genesys

Jan. 2018 - Apr. 2018

Markham, ON

- Defined product goals and deliverables by consolidating data, customer requests and company strategy
- Led transition of development team to an Agile (Scrum) workflow, shortening iteration cycle by 300%
- Facilitated cross-team discussion and collaboration throughout the entire product life cycle, ensuring all teams are aligned with the overall product vision
- Wrote script to convert JIRA epics to Confluence pages, reducing manual labour time by over 500%
- Designed and developed prototypes using natural language technology that enhance existing products and open new channels of engagement, including Alexa Skills, Google Assistant Actions and chatbots
- Gave an office-wide tech talk on virtual assistants and conversational agents

### Technical Engineer

University of Waterloo Nano Robotics Group

Sept. 2016 - Present

Waterloo, ON

- Designed and built competition-winning microbots smaller than the width of a strand of hair
- Led the design of a high-speed amplifier crucial to the development of the team's first fully-fluid robot
- Worked with the controls team to ensure that the hardware and software work in unison

### QA Analyst

ICF Olson

May 2017 - Aug. 2017

Toronto, ON

- Wrote and executed end-to-end test cases from given business and technical requirements
- Logged and tracked issues on JIRA, assigning severity and priority as appropriate

## Projects

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**VideoNail** | Chrome extension to watch YouTube videos on any page. 150+ users, 5/5 rating

- Grew userbase 5x in one month after joining the team project, after a year of stagnant growth
- Marketed the product and made many improvements based on user feedback
- Improved video player algorithms, increasing load speed and website compatibility by over 100%

**StudyStart** | Multi-platform chatbot that interactively quizzes students on their school notes

- Implemented algorithm to find facts in notes and convert them into questions using the Natural Language Toolkit (NLTK) Python library. Leveraged processing power of AWS LightSail server to run the algorithm
- Developed the chatbot using DialogFlow and Firebase, deployed it on Google Assistant, SMS and Slack

**WatchSafe** | Web app that uses CV to detect & censor inappropriate content from videos in real time

- Wrote the Flask back-end, used Socket.io to update the front-end dynamically
- Won best use of .tech domain at Hack the Valley 2

**Object Tracking Car** | Robot car that identifies and follows an object on its own

- Built, wired and programmed the car with a Raspberry Pi and dual H-bridge motor setup
- Developed algorithm to track and follow an object using OpenCV for Python

## Education

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**University of Waterloo**, 2B Computer Engineering

2016 - 2021 (Expected)

Dean's Honour List | 91% term average | International Baccalaureate Diploma Program Graduate

Relevant Courses: Data Structures & Algorithms, Embedded Microprocessor Systems, Engineering Design w/ Embedded Systems, Operating Systems & Systems Programming, Signal & Systems, Digital Computer Organization

## Interests

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Snowboarding (CASI Certified Instructor), Conversational Agents, Video & Board Games, Racquet sports, Travelling