

Nigel Huang

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📍 Markham, ON

Summary of Qualifications

- Aspiring software engineer with 8 months of experience architecting and implementing high quality software in enterprise environments.
- Strong foundation in Object Oriented Programming, Data Structures and Algorithms, and Digital Logic.
- Active student in connecting and educating the tech community on campus. Tutor for programming and worked with others to host workshops attended by over 250+ students.

Relevant Experience

Quality Engineer Intern @ Royal Bank of Canada (RBC)

May 2020 – Aug 2020

- Implemented a custom automation testing suite in JavaScript which reduced the time spent on manual QA regression testing by 83%.
- Decreased the turnaround time for production upgrade from 1 week down to 2 days through an initiative, including training sessions, to automate repetitive work.
- Collaborated with an Agile team through daily stand-ups, sprints, and requirement gathering with product owners and software developers.

Software Developer Intern @ Loadlink Technologies

May 2019 – Aug 2019

- Architected and implemented a REST API for integration between Salesforce and MS SQL which reduced customer wait times by 5 minutes.
- Developed and deployed Salesforce applications (JavaScript) to be used by 20 customer service representatives.
- Created an internal knowledge base website (Python, MkDocs) which aided in the maintenance of mission critical SSIS packages.

Projects

Ocurl <https://ocurl.io>

- Free REST API for getting and decoding shortened URLs. 10+ daily active users. Also available as Discord Bot and Chrome Extension.
- Built with Node.js, with Redis for caching, and Cassandra for storage. Utilized Docker Compose for containerized deployment.
- Node.js, Apache Cassandra, Redis, Docker

Obstacle Avoidance Robot

- Robot that uses ultrasonic sensors to avoid obstacles and adjust it's own speed depending on environmental conditions.
- C, Arduino, HC-SR04 Ultrasonic Sensor

Mood Chatbot – UofT Hacks 2019

- Developed a server with Flask which interfaced with a sentiment analysis model and provided an API for real time interaction.
- Prototyped the front end with an UI built on HTML, JavaScript, CSS.
- Python, Flask, Socket.io

Weather Forecasting Model

- Cleaned up, visualized, and transformed a time series dataset in Python, Pandas, and seaborn.
- Trained a model with 78% accuracy using Facebook Prophet and published a tutorial on GitHub.
- Python, Pandas, Scikit-learn, Seaborn, FB Prophet

Education

Ryerson University - Expected May 2022

Bachelor of Engineering in Computer Engineering. 4.14 / 4.33 CGPA

- Software Engineering option.
- Dean's List 2018 – 2020.

Skills

Languages

C++, C, Java, Python, JavaScript, SQL, VHDL

Databases

Apache Cassandra, Redis, MS SQL, Firebase Firestore

Tools & Platforms

Git, Docker, Debuggers, Bash, Node.js

Hardware Development Tools

Intel Quartus II, NI Multisim, Altera FPGA board, lab equipment (oscilloscope, function generator, etc.)

Leadership

Open Source Contributor

Collaborated with maintainers and community to develop new features. Accepted pull requests to Netlify CMS, Material UI.

Ryerson Artificial Intelligence

Developed a mobile friendly homepage for the team using React and Netlify.

Student Learning Support Tutor

Ryerson certified tutor for electric circuits, programming, and calculus. Highly rated by 15 students.

Hackathon Mentor

Mentored hackers at TOHacks, RUHacks, and NewHacks. Helped hackers learn and overcome technical challenges in their projects.