Nigel Huang

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Education

Ryerson University   Toronto, Ontario
B.Eng. in Computer Engineering with Software Engineering Option. GPA: 4.14/4.33   Expected May 2023

Technical Skills

- **Languages:** JavaScript, Java, Python, C, HTML5, CSS3, SQL
- **Frameworks and Libraries:** NodeJS, Express, React, Firebase
- **Tools and Platforms:** Git, Docker, Google Cloud Platform, Linux

Work Experience

Advanced Micro Devices, Inc. (AMD)   Markham, Ontario
Memory Hardware Diagnostics Engineer, Radeon   Starting May 2021
- Tuning and validation platform for high performance graphics chip hardware.

Royal Bank of Canada   Toronto, Ontario
Quality Engineer Intern, Data Centre Infrastructure and Strategy   May 2020 – Aug 2020
- Reduced the time spent on manual QA regression testing for **ServiceNow processes** by **83%** through the implementation of 5 automated testing suites in JavaScript and Jasmine Test Framework.
- Supported internal testing tools and creating accurate reports of test results during all test phases.
- Collaborated in an **Agile** team of 6 through stand-up meetings, sprints, and requirement gathering with product owners and software developers.

Loadlink Technologies   Mississauga, Ontario
Software Developer Intern, Operations   May 2019 – Aug 2019
- Implemented a Salesforce integration by writing a stored procedure and trigger in **MS SQL** which reduced customer password service request wait times by **5 minutes**.
- Developed and deployed Salesforce applications to be used by 20 customer service representatives which allowed better insight into the team's productivity, and **reduced the average ticket backlog by 12%**.
- **Orchestrated 7 processes** including subscribing, upgrading, and removing customer subscriptions using Salesforce process builder, triggers, and scheduled jobs to save time and **increase sales growth by 3%**.

Projects

URL Shortener Service (https://ocurl.io)
- Created a **RESTful API** specified backend built with **NodeJS**, **Express.js**, and **PostgreSQL**.
- Developed overall microservice architecture with a focus on scalability using **Docker containers**.
- Implemented an Express caching **middleware** for all API endpoints using **Redis**.
- Used **Google Cloud Platform** and **Stackdriver** to deploy and monitor the application in production environment.

Sentiment Analysis and Visualization of Toronto Reddit Submissions
- Performed **sentiment analysis** on 1000 submissions by training a Naïve Bayes classifier with **71% accuracy**.
- **Preprocessed** 100,000 rows of text data by tokenization, normalization, and noise removal using Python.

Mental Health Chatbot Server – UofT Hackathon 2019
- Prototyped and presented a full stack chat application for mental health advocacy with a backend built using **Flask**.
- Used **Python** Reddit API Wrapper to scrape over **100 posts and 400 threads** off of Reddit.com for training.
- Utilized **WebSocket** protocol and **Firebase** for real time messaging and storage.

Leadership and Volunteering

Ryerson Artificial Intelligence (https://ryersonai.ca)   Sep 2019 – Present
- Full-stack Developer responsible for the end-to-end development and deployment of the website (**React** and **Netlify**).

Open Source Contributor (https://github.com/nigel5)   Dec 2018 – Present
- Collaborated with maintainers and the community to develop features on **Netlify CMS** and **Angular Components**.