
EDUCATION

Ryerson University

Bachelor of Engineering in Software Engineering

Dean's List: 2018 - 2021

Exp. Apr 2023

GPA: **3.90**

EXPERIENCE

Software Engineer Intern

IBM

May 2020 - Present

- Developed a full-stack web application using **TypeScript**, **React/Redux**, and **Express.js**
- Constructed an end-to-end workflow testing suite to improve error catching by 70%
- Built a database monitoring bot to re-route misplaced support tickets, increasing NPS scores by 30%
- Managed a group of interns to develop a 3-week educational course for the usage of internal tools
- Automated an internal data analytics tool to visualize support satisfaction metrics in real-time
- Deployed all applications in **Docker Containers** using **CI/CD pipelines** with **Travis CI**

Full Stack Engineer Intern

LunaID

Jan 2021 - Present

- Utilized **machine learning** to detect insects and recommend pesticides for agricultural farmers
- Created a full-stack mobile application using **React Native** and **Firebase**
- Constructed data workflow pipeline to annotate and prepare 36GB of image data
- Trained object detection **COCO-SSD TensorFlow** model to classify insects based on species and age

PROJECTS

Youtube Video Synchronizer

<https://vidshare.ca>

- Developed a full-stack web application to watch YouTube videos with others synchronously
- Synchronized user activity using **websockets** and **Express.js**, serving around 2000 monthly users
- Designed front-end UI using **HTML**, **CSS**, **JavaScript**, and **Bootstrap**

AnonBoard - 4th at IBM Hackathon

<https://tiny.cc/dm56tz>

- Developed an online job board that aims to remove racial bias in the hiring process
- Utilized **computer vision** and **natural language processing** to block discriminable information
- Constructed A.I. endpoints using **IBM Cloud Functions** and web application with **Firebase** and **React**

Automated Classifieds Bot

<https://git.io/JkKfz>

- Created a **Python** bot to identify high-margin listings and notify user via email
- Utilized **Selenium**, **numpy**, and **pandas** to scrape classifieds listings and store data dynamically
- Automated and deployed bot using an **AWS EC2** instance, handling email notifications with **smtp**

Handwritten Digits Classifier

<https://tiny.cc/izm5tz>

- Created and trained a **neural network** in **Keras** to classify handwritten digits
- Designed a full-stack web application to visualize neuron layer with **Node.js**, **React**, and **Express.js**

TECHNICAL SKILLS

Languages: Python, JavaScript, React, Java, HTML, CSS, C, SQL

Tools/Technologies: Git, Node.js, Docker, AWS, Express.js, Travis CI, MongoDB, Flask, Tensorflow, Keras