

Carl Shen

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SKILLS

Languages: C, C++, HTML/CSS, Javascript, Java

Technologies: Node, Express, Bootstrap, Pug, MongoDB Atlas, Mongoose, Git, Photoshop

PROJECTS

Fridge Recipes — Personal Project ([LINK](#))

A modern day fridge and recipe management tool to find recipes based on ingredients already found in the user's fridge/kitchen.

- Backend built with **Node** and **Express**, and models user information (login info, fridge contents) with **Mongoose**. Data is stored in a **MongoDB Atlas** noSQL database.
- Frontend built with **Bootstrap**, and the **Pug** templating engine

Sagacity — Hack the North 2019 Winner/Finalist ([LINK](#))

A note-taking tool for students to help digitize and streamline the note-taking process, turning messy fragmented notes into high-quality, well structured ones.

- Uses text detection models from the Google Cloud Platform as well as robust OCR to convert the handwriting in the image into text. An NLP model is used to generate text around the key phrases while accounting for related sentences.
- Routing and backend facilitated with **Node** and **Express**, and user accounts stored on a MongoDB database

Protect — Personal Project ([LINK](#))

A mobile game built for the Google Play Store

- Built using **Unity** and written in **C#**
- Learned and applied basic UI/UX principles regarding minimalist, flat design

WORK EXPERIENCE

Hatch LTD. — IT Service Desk, Digital Sector

July 2019 - August 2019

A summer internship earned as a part of the [Gerlad G. Hatch Scholarship](#)

- Fulfilled employee ticket-requests regarding issues in hardware and software throughout the company building.
- Main duties included replacement of faulty equipment (input/output devices), setting up workstations for new employees (wiring up monitors, laptop docking stations, IO devices), and reimaging used laptops with the company intranet

Tim Hortons — Front-Line Employee

July 2018 - March 2019

Worked as a general front-line employee, serving triple-duty as a cashier, barista, and sandwich artist.

EDUCATION

University of Waterloo — Software Engineering, Co-op

SEPTEMBER 2019 - APRIL 2024 (Expected)

- 1st Term Average: 92% (3.96 GPA)
- Received President's Scholarship of Distinction (\$5,000)

OTHER

UW Midnight Sun Solar Car — Firmware team

- Written in C, and used to facilitate power distribution, battery monitoring system and driver controls.

AP Computer Science A Exam — written in Java: 5/5