

# Carl Shen

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## SKILLS

**Languages:** C, HTML/CSS, C++, Javascript, Python, Dart, Java, JSX, Scala

**Technologies:** NodeJS, ExpressJS, ReactJS, Firebase, Flutter, SQLite, Bootstrap, Pug, MongoDB

## WORK EXPERIENCE

**TD Lab** — Software Developer

May 2020 - August 2020

- Worked in an Agile, startup-like environment with weekly Sprints towards developing mobile banking solutions
- Designed Flutter apps and integrated with Parse Server backend
- Worked closely with Firebase, and Parse Server to facilitate user authentication and data storage

**Hatch LTD.** — IT Service Desk, Digital Sector

July 2019 - August 2019

- Fulfilled employee ticket-requests regarding issues in hardware and software

## PROJECTS

**Fridge Recipes** — Personal Project

[github.com/JankyCS/fridge-recipes-mern](https://github.com/JankyCS/fridge-recipes-mern)

- Recipe discovery tool to find recipes based on ingredients already found in the user's kitchen, deployed on Heroku
- Built frontend using React and Bootstrap to create a clean UI that adapts to different viewport sizes
- Built backend using Node and Express. Data modelled with Mongoose and stored in MongoDB Atlas
- Encrypted user passwords with bcryptJS and authenticated with PassportJS, using the JavaScript Web Token strategy

**Moodly** — Personal Project

[github.com/JankyCS/mood\\_tracker](https://github.com/JankyCS/mood_tracker)

- Journal-driven mood tracker app, published to the Google Play Store
- Built with Flutter and programmed in Dart
- Data stored locally using SQLite. Integrated with Firebase Cloud Functions to encrypt and decrypt user's import/export data

**Tox.ly** — Oakhacks 2020 2nd Place

[devpost.com/software/toxly](https://devpost.com/software/toxly)

- Analyzed the chemical hazards in personal care products by taking a photo of the ingredient list
- Built frontend using React and Bootstrap to create a clean UI that adapts to different viewport sizes
- Detects text from images using Google Cloud Vision
- Webscraper built and hosted as a Firebase Cloud Function

## EDUCATION

**University of Waterloo** — BAsC Software Engineering, Co-op

September 2019 - April 2024

- Cumulative Average: 92% GPA

## AWARDS

Hack the North 2019 Winner

President's Scholarship of Distinction

## INTERESTS

Baking Sourdough Bread, Personal Fitness, Playing Piano,

Graphics Design