# Carl Shen

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## SKILLS

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

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

## WORK EXPERIENCE

**TD Lab** — Software Developer — May 2020 - August 2020

- Explored solutions to pain points in financial technology, implementing them through Android, iOS and Web applications then presenting the concepts to a panel of executives
- Developed a full-stack Flutter app integrated with Parse Server backend for user authentication and data storage
- Performed technical explorations in emerging technologies such as GPT-3 and iOS 14 App Clips to inform the bank of their utility
- Developed 2 hackathon-style prototypes with VueJS, Google Cloud Vision, Firebase, and Flutter

**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

- Search recipes based on ingredients already found in the user's kitchen, deployed to Heroku
- Built frontend using React and Bootstrap to create a clean UI that adapts to different viewport sizes
- Created a RESTful api backend using Node and Express. Data stored in MongoDB Atlas
- Encrypted passwords with bcryptJS. Authenticated with PassportJS, using Javascript Web Tokens

**Moodly** — Personal Project — github.com/JankyCS/mood_tracker

- Journal-driven mood tracker app, published to the Google Play Store, with 30+ downloads
- 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

- 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** — Honours Software Engineering, Co-op — Sept. 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