Carl Shen

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Education

University of Waterloo — Bachelor of Software Engineering

Sept 2019 - Apr 2024

Cumulative Average: 92% GPA

Skills

Languages Javascript, Python, Golang, GraphQL, SQL, C, C++, Java, Dart, HTML, CSS, Scala **Technologies** NodeJS, ExpressJS, ReactJS, Redux, MongoDB, Keras, Firebase, Flutter, Bootstrap, Git, Flask, Airflow, Swagger/OpenAPI, Jupyter Notebook, Apache Spark

Experience_____

Wish — Software Engineering Intern, Data & Relevancy

Sept 2021 – Dec 2021

- Implemented data automation pipelines with **Airflow** and **Python** to process and score search queries for **7,000,000+ products every day** via **Hive SQL** queries
- Developed backend microservices using **Golang** and **MongoDB** for a new fashion ecommerce app, 1Sansome. Served using a **GraphQL** gateway

NCR Corporation — Software Developer

Jan 2021 – Apr 2021

- Developed a **Dockerized Java/Maven** app that creates API endpoints using **OpenAPI** specifications and
 a **custom programming language**. Served both externally and to **10+ teams of engineers** internally
- Revamped the frontend interface using ReactJS, Redux and MaterialUI by working with designers

TD Bank Innovation Lab — Software Developer

May 2020 - Aug 2020

• Developed a mobile app using **Google Cloud Vision**, **Firebase**, and **Flutter**, to find relevant scholarships using a photo of a student transcript.

Projects_

Writing Buddy

github.com/JankyCS/story-generator-nlp

- Created an Al-powered collaborative story generator, deployed as a DiscordJS bot and a ReactJS app
- Built a LSTM Recurrent Neural Network using Keras for character-level text generation
- Scraped data with BeautifulSoup and preprocessed with NumPy, totalling 85,000+ training examples

Moodly

github.com/JankyCS/mood tracker

- Developed and released a mood-tracker Flutter app with 800+ downloads on the Google Play Store
- Stored data locally using SQLite and encrypted/decrypted data with a Firebase Cloud Function

Sagacity — Hack the North 2019, 1st/1500+ Hackers

devpost.com/software/sagacity

- Built an application that converts pictures of fragmented notes into readable and organized notes
- Produced high quality notes by fine tuning the OpenAl GPT 2 recurrent neural network
- Detected and read text using Google Cloud Vision text detection models

Fridge Recipes

github.com/JankyCS/fridge-recipes-mern

• Developed and deployed a **MERN** web-app to search recipes using ingredients already in the kitchen

Interests

Chess, Baking Sourdough Bread, Investing, Personal Fitness, Playing Piano, Graphic Design