

SUSAN CHEN

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Education

University of Waterloo · Waterloo, ON · BMath Mathematics

Sept 2017 – May 2021

- University of Waterloo President's Scholarship

Skills

Language: Python · C/C++ · C# · Java · Swift · Go · JavaScript · HTML · CSS

Tools: Angular · React · MongoDB · Firebase · Redis · Git · Docker · Bash

Software: Android Studio · XCode · Visual Studio · Jupyter Notebook · Jira

Experience

Apple Inc. · Cupertino, CA · Software Developer Intern

May 2019 – Aug 2019

- Developed clustering algorithm similar to KMeans to detect properties of a multi-mode Gaussian mixture using Python packages and Jupyter Notebook
- Maintained internal data analysis and reporting web application for Apple device testing stations using Flask, Docker, and JavaScript
- Came in second place for a companywide intern pitch competition by delivering an innovative product feature abstract and presentation

Deloitte Ltd. · Kitchener, ON · Software Prototyper Intern

Sept 2018 – Dec 2018

- Built personal banking app on iOS using Swift front-end, Python, and MongoDB back-end in a team, as part of an innovation project utilizing open banking
- Implemented the Holtz Winter model and tested different time series prediction models to forecast future user spending for calculation of optimal weekly spending
- Researched methods to detect anomalies in transaction history using scikit-learn

Finastra Ltd. · Mississauga, ON · Software Developer Intern

Jan 2018 – Apr 2018

- Refactored caching for RESTful API endpoints using Redis and browser session storage to lessen traffic, improving the loading time by 60%
- Fixed over 80 bugs for existing external and internal Angular websites
- Improved mobile responsiveness for Angular websites, ensuring it is compatible with several types of mobile devices and browsers as per WCAG 2.0 AA standards

Trench Group · Toronto, ON · Software Developer Intern

Oct 2016 – June 2017

- Designed a tool with C# where users may easily update data tables using Excel sheets
- Updated and maintained databases of customer records on SQL Server databases

Projects

Deloitte Blockchain Case Competition

May 2018

- Prototyped blockchain API with JWT authentication using Python and Flask to replace existing the inconvenient decentralized database structure of a hypothetical company
- Developed a Node Manager website using Angular to manipulate blockchain services

Macro Shape Web Application

July 2019 – Present

- Designed a React app that allows users to analyze different food and its macronutrients
- Maintained backend service programmed in Go to retrieve and store data from Firebase, as well as update database using USDA APIs