Carney Cheng

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SKILLS

PROGRAMMING

Proficient with:
Python • Node.js
Typescript • Javascript
React • VueJS

Familiar with:
Go • Java • Android

Past Experience with:
C/C++ • C# • SQL
Haskell • ARM Assembly

TECHNOLOGIES

Proficient with:
Git • Linux • Docker
Google Cloud • AWS Lambda
Test-Driven Development • CI/CD

Familiar with:
GraphQL • PubSub

EDUCATION

AUSTRALIAN NATIONAL UNIVERSITY

BEng in Software Engineering (Hons. Suspended)

JAN 2018 - JAN 2019 | Australia

Cum. GPA: 3.8 / 4.0

UNIVERSITY OF MANITOBA

BSc in Computer Science

SEPT 2016 - JAN 2018 | Canada

Cum. GPA: 4.3 / 4.5

Abraham, Mary, and Susan Mathai Deane Scholarship
For the highest academic achievement during 2016 - 2017

EXPERIENCE

MEDICONCEN | Senior Software Engineer

Sep 2020 - Present
- Worked on the Blockchain-based Insurtech team, in **Go**, **Python** and **Node.js**. Designed and led the development of an insurance claim and payment service.
- Containerized existing services with **Docker** and **Compose**, enabling easier environments segregation and saving 15 minutes of daily manual deployments.

WEBS S'UP | Web Developer

Apr 2019 – Jul 2020
- Advocated for and later created **test-suits** and **CI/CD** pipelines for the Online Insurance Platform development team, increasing application stability and shortening release cycle from 1 month to 2 weeks.
- Reduced image parsing time by 90% by developing an algorithm for running post-processing and OCR services in bulk concurrently with dispatcher pattern.
- Led a team of 3 to develop a Document Parsing System with a **TDD** cycle, after demonstrating capabilities by revamping multiple on-going projects.
- Exceeded client expectations by implementing a system capable of handling a 1000 document input parse under 2 minutes versus the requested 30 minutes time-frame.

TIGOD ONLINE | Freelance Developer

Jun 2015 - Apr 2019
- Designed and created a gift customizing website for a client, with a peak 100+ concurrent users. 3 more variants were created due to customer satisfaction.

PROJECTS

DOCUMENT COMPARISOR | Typescript, FP, Google Cloud

FEB 2020
- Implemented a Photoshop like UI for specifying key areas in PDF for the initial training of Object Detection Models, using **SVG** with **React** and **Redux**.
- Developed an algorithm for extracting key-value datas from tabular images, by calculating and combining vertices from **Google OCR** and **AutoML Vision Object Detection** results.
- Done in a **functional programming** paradigm, using **Typescript** and **FP-TS**. For simple pipelines of concurrent side-effect free functions with Task Monad.

FOREX SNATCHER | Python, C++, Machine Learning

NOV 2018
- Created a system in **C++** for retrieving, storing and distributing forex tick data from third-party brokers, with a sub 1 ms latency.
- Developed a back-testing suite in **Python**, which simulates forex trading with an interface for testing custom strategy with real historical tick data.
- Built a program for optimizing trading strategies by using ensemble learning methods for predictive analysis with **Python** and **scikit-learn**