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## SKILLS

LANGUAGES: Python, Java, C#, Node.js, TypeScript, JavaScript

FRAMEWORKS AND SERVICES: Express.js, React, VueJS, Docker, Kubernetes, Google Cloud, AWS, GraphQL

PARADIGMS: Distributed System Design, Object-oriented Programming, Test-Driven Development, Agile Development

## **EXPERIENCE**

#### **SENIOR SOFTWARE ENGINEER** | MEDICONCEN

SEP 2020 - MAR 2021

- Led a 4-person team to develop insurance claim and clinic management services, in Go, Python and Node.is.
- Created and designed an OAuth and Single sign-on platform for third-party integration, currently used by 3 major insurance providers to manage patient credentials and issue insurance policies.
- Designed and revamped legacy systems to use a distributed architecture using **Docker** and **Kubernetes**, enabling easier environment segregation, improved scalability and increasing application throughput by 1200%.

## WEB DEVELOPER | WEBS S'UP

APR 2019 - JUL 2020

- Led a 3-person team to develop Document Parsing System with a TDD cycle which resulted in an improvement in report accuracy by 30%, and reduction of monthly report processing time from 14 days to 1 day.
- Reduced image parsing time by 90% by developing an algorithm for running post-processing and OCR services in bulk concurrently with dispatcher pattern, using Google Cloud Functions.
- Implemented a system capable of handling a 1000 document input parse under 2 minutes versus the requested 30 minutes time-frame.
- Created test-suites and CI/CD pipelines, increasing system stability and halving release cycle.

### FREELANCE DEVELOPER | TIGOD

Jun 2015 - Apr 2019

- Created a system in C++ for storing and redistributing tick data from forex brokers, with a < 1 ms latency.
- Developed a back-testing suite in **Python**, which simulates forex trading with an interface for testing custom strategy with historical tick data.
- Optimized trading algorithms by using **Machine Learning** with ensemble and decision tree for predictive analysis with Python and scikit-learn.

## **PROJECTS**

#### **DOCUMENT COMPARER** | Typescript, Functional Programming, Google Cloud

FEB 2020

- Implemented as micro-services using Google Cloud Functions and Firestore, with asynchronous communications facilitated by Google PubSub and Firebase Cloud Messaging.
- Created 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.

# **EDUCATION**

#### AUSTRALIAN NATIONAL UNIVERSITY