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SKILLS

LANGUAGES: Python, Java, Node.is, Typescript, Javascript

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

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

EXPERIENCE

SENIOR SOFTWARE ENGINEER | MEDICONCEN

SEP 2020 - PRESENT

- Led a 4-person team to develop insurance claim and clinic management services, in Go, Python and Node.js.
- 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.
- 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

• 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 COMPARER | Typescript, Functional Programming, Google Cloud

FFB 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.

FOREX SNATCHER | PYTHON, C++, MACHINE LEARNING

Nov 2018

- 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 ensemble learning for predictive analysis with **Python** and **scikit-learn**.

EDUCATION

AUSTRALIAN NATIONAL UNIVERSITY