

Waqas Ali

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EDUCATION

- **The University of Hong Kong**

Bachelor of Engineering in Computer Science; GPA: 3.51/4.30; Full Scholarship

Sept. 2016 – May 2020

EXPERIENCE

- **Credit Suisse**

Software Engineer

Hong Kong

August 2020 - Current

- **Data Pipeline** Implemented horizontal auto-scaling by migrating from virtual machines to kubernetes using GitOps for transparent and self-documenting cluster management. Dockerized kotlin apps, deployed kafka/zookeeper/kafka connect and implemented inter-app service discovery using k8s api.
- **Private Banking** Improved investment ideas targeting by developing a feature to easily filter clients. Used React, CSS, Typescript to create an on-brand interface and Node.js, MongoDB to enhance the GraphQL API.
- **Campaign Analytics** Developed real-time campaign analytics by tracking idea conversions using Clojure in a ETL pipeline and visualizing the data using custom CSS charts.
- **Data Ingestion** Implemented periodical transaction data ingestion using Clojure.
- **Gitlab1s** Ported the open-source github1s.com project internally to allow quick preview of internal repositories across APAC region.

Software Engineer, Intern

June - August 2019

- **Client Recommendation** Developed an idea recommendation platform powered by a content-based machine learning model with TypeScript, GraphQL, React and OAuth. Implemented a continuous integration and deployment pipeline using Docker and Kubernetes.
- **CodeIT Suisse** Developed a programming competition platform for a recruitment event using Java, Spring Boot and React. Added real-time grading, gamification using badges, performance graphs, admin dashboard and BDD testing using Cucumber.

- **GRAIL Inc.**

Software Engineer, Intern

Hong Kong; Menlo Park, CA, USA

June - August 2018

- **Removed the need for manual invoicing** by implementing a billing system for automated monthly invoicing of customers. Generated PDF for each invoice automatically. Integrated with NetSuite and Salesforce to sync customer information in real-time.
- **Allowed billing flexibility** by developing a system to make corrections in invoices, add discounts during marketing drives and support special pricing per customer. Used Go, SQL, React and Redux with unit and integration tests.

- **Microsoft**

Technology Solutions Professional, Intern

Hong Kong

June - August 2017

- **Reduced time for sales to find Azure offerings for clients** through a web app that allowed convenient searching and filtering of offered products with comparisons to competitors such as AWS.

PROJECTS

- **StudentBase** High school community with 10,000 monthly active users (<https://studentbase.app>). GraphQL Server with 90% testing coverage, React frontend, S3 for content storage, Dockerized, Written in TypeScript, Infrastructure as Code (Terraform), Continuous Integration/Deployment, Seed-funded HK\$100,000 by Hong Kong Science Park.
- **Acumen** Final Year Project: A distributed system to improve latency, efficiency and throughput of machine learning inference pipelines. Used Tensorflow, gRPC, Docker and Node.js. Paper at github.com/WaqasAliAbbasi/HKU-FYP
- **DragonSearch** Academic search engine powered by Elasticsearch that helps filter through millions of papers, authors and topics by asking for real-time user feedback. - Winner of Chengdu80 2019 inter-university FinTech competition

SKILLS & ADDITIONAL EXPERIENCE

- **Languages** Typescript, CSS, SQL, Clojure, Java, Haskell, Go
- **Teaching Assistant** ENGG1111 - Computer Programming and Applications