

EDUCATION

Pok Fu Lam, Hong Kong **The University of Hong Kong** **September 2016 – May 2020**

- Bachelor of Engineering in Computer Science with *minor in Cognitive Science* - Full Scholarship for 4 Years - CGPA 3.48/4.30
- Highlight Courses: *Design & Analysis of Algorithms, Machine Learning, Distributed Systems, Functional Programming*

EMPLOYMENT

Software Engineer, Intern **Credit Suisse** **June – August 2019**

- **Visualized recommendations generated by a content-based machine learning model** by developing a full stack typescript project from scratch with a GraphQL server and React frontend. Implemented a continuous integration pipeline with testing, dockerization and private cloud deployment (using Kubernetes).
- Worked on a **programming competition** grader (Java/Spring Boot/Cucumber) and interface (React)

Software Engineer, Intern **GRAIL Inc.** **June – August 2018**

- **Removed the need for manual invoicing** by implementing a billing system from scratch 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 dashboard to make corrections in invoices, add discounts during marketing drives and support special pricing per customer.
- Used Golang, React and Redux with robust unit and integration tests.

Technology Solutions Professional, Intern **Microsoft Hong Kong** **June – August 2017**

- **Reduced customer service cost by 30%** by designing and implementing an AI-infused customer service platform using Azure's cognitive services. Composed of chatbot, NLP and speech-to-text on the frontend with an analytics backend. (*Node.js, jQuery*)
- **Reduced time for sales team to find optimal Azure offerings for their customers by 75%** through developing a web app which allows convenient searching and filtering of offered products while comparing them with those of competitors such as AWS. (*jQuery*)

HIGHLIGHT PROJECTS

See more at WaqasAli.dev/work

- **StudentBase.app** Online community for high school teachers and students to share resources. GraphQL Server with 95% testing coverage, React frontend, S3 for content storage, Dockerized, Written in Typescript, Infrastructure as Code (Terraform), Continuous Integration/Deployment. (10,000 monthly active users)
- **DragonSearch** An academic search engine which refreshes results based on user feedback to help them find exactly what they are looking for among millions of papers, authors and topics. (ElasticSearch, React)

SKILLS AND TECHNOLOGIES

- **Core** Go, Typescript, JavaScript, Python, C, C++, Java, PHP, SQL, Shell, Haskell, Distributed Computing
- **Web, Mobile & Database** React, GraphQL, Redux, React Native | Unity | SQL, MongoDB
- **ML/AI** Classification, Regression, Deep Learning, Reinforcement Learning

ADDITIONAL EXPERIENCE AND AWARDS

WaqasAli.dev/achievements

- **Teaching Assistant** ENGG1111 - Computer Programming and Applications
- **Cyberport Creative Micro Fund** Seed-funded HK\$100,000 for development of project CreditSense
- **Radica/UBS BigDatathon 2018** Winner
- **Chengdu 80 Fintech 2019** Winner

LEADERSHIP

- **Founder Chi Sun Turing Club** Led a team of 15 to develop a college management system and mobile app. Also organized a hackathon and several workshops.

