Waqas Ali

B-1408, 9 Lung Wah St, Hong Kong +852 5986 7711

EDUCATION

Pok Fu Lam, Hong Kong

The University of Hong Kong

September 2016 - May 2020

- Bachelor of Engineering in <u>Computer Science</u> with *minor in Cognitive Science* Full Scholarship for 4 Years -CGPA 3.51/4.30
- Highlight Courses: Machine Learning, Distributed Computing, Functional Programming

HIGHLIGHT PROJECTS

See more at WagasAli.dev

- **StudentBase.app** Online community for high school students and teachers (10,000 monthly active users). GraphQL Server with 90% testing coverage, React frontend, S3 for content storage, Dockerized, Written in TypeScript, Infrastructure as Code (Terraform), Continuous Integration/Deployment.
- **DragonSearch** A unique search engine which accepts realtime user feedback to help find exactly what the user is looking for among millions of papers, authors and topics. (ElasticSearch, React)
- Acumen A general-purpose distributed system for machine learning inference pipelines (Final Year Project)

EMPLOYMENT

Software Engineer, Intern

Credit Suisse

June - August 2019

- Built a recommendation system 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.
- Designed and developed a **programming competition** platform for a recruitment event (Java/Spring Boot/Cucumber/React). Worked on real-time grading, gamification, badges, leaderboard, graphs, admin dashboard and BDD testing.

Software Engineer, Intern

GRAIL Inc.

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 Golang, React and Redux with 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 Al-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*)

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

WagasAli.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 Inter-University Fintech 2019 Winner

INITIATIVES

• 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.