

Waqas Ali

waqas.abbasi@outlook.com

linkedin.com/in/waqasaliabbasi

+852 5986 7711

EXPERIENCE

• Credit Suisse

Full Stack Software Engineer

Hong Kong

August 2020 - Current

- **Instrument Events** Analysed 1M rows of new research, market, corporate, and news data of 50,000 instruments under 10 minutes every day using Apache Spark jobs written in Clojure and executed with auto-scaling on Kubernetes.
- **Client Advisory** Saved hundreds of monthly work hours by automating the manual process of targeting new investment ideas across 5,000 ultra-high-net-worth clients according to their regulatory requirements and investment preferences.
- **Digital Advisory** Improved front office productivity by 10x by replacing manual emails with a platform allowing generation, review, preview, send-off, and conversion-tracking of emails, SMSs, and push notifications. (React, Styled Components, Typescript, Node.js, MongoDB, GraphQL)
- **Risk Data Aggregation** Doubled throughput and saved unnecessary compute by migrating pipeline from parallel threads running in a monolith on a virtual machine to 25 individual task processors running on Kubernetes with horizontal pod auto-scaling based on queue size. (Kotlin, Kafka, ZooKeeper, Kafka Connect, Flux GitOps).
- **Reuters Market Data System** Removed production errors by 80% by rewriting an unreliable closed-source JNI library in Clojure. Implemented PermServer protocol over TCP sockets using clojure.async.

• StudentBase Limited

Founder, Full Stack Software Engineer

Hong Kong

June 2019 - March 2022

- **Resource Sharing Platform** Developed a platform for high school students used by 10,000 unique users every month. Implemented features such as content upload, moderator approval, comments, upvotes, past paper solving, mistake tracking, and bookmarking. Gained code confidence by prioritising tests and achieving 90% testing coverage. (React, Next.js, TypeScript, Node.js, GraphQL, Prisma, S3)
- **Automated Infrastructure** Improved release reliability by implementing continuous integration and deployment with GitHub Actions. Wrote the entire infrastructure as code using Terraform.
- **Team Management** Managed a team of 4 part-time engineers and an intern to build a successful ed-tech platform from scratch. Seed-funded HK\$100,000 by Hong Kong Science Park. Folded the company in March 2022 and stopped feature development; Currently operating as a non-profit.

• Credit Suisse

Software Engineer, Intern (TypeScript, Java, React, CSS, Docker, Spring Boot)

Hong Kong

Summer 2019

• GRAIL Inc.

Full Stack Software Engineer, Intern (JavaScript, Go, React, Redux, SQL)

Hong Kong; Menlo Park

Summer 2018

• Microsoft

Technology Solutions Professional, Intern (JavaScript, Python, jQuery)

Hong Kong

Summer 2017

EDUCATION

• The University of Hong Kong

Bachelor of Engineering in Computer Science (Minor in Cognitive Science)

Full Scholarship

3.51/4.30 GPA

Sept. 2016 – May 2020

OPEN SOURCE CONTRIBUTIONS

- **Geni** Increased developer productivity by removing the need to explicitly specify Apache Spark DataFrame schemas and rows. Implemented on-the-fly parsing and transformation of nested Clojure data structures to Spark DataFrames. #336 #340
- **VSCode** Improved link highlighting in markdown files as per CommonMark Spec. (TypeScript, Electron) #140816

SKILLS

- **Languages** TypeScript, Clojure, CSS, SQL, Java, Kotlin
- **Tools/Frameworks** React, Node.js, Figma, GraphQL, Kubernetes, Apache Spark