

# Quan Tran

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## TECHNICAL SKILLS

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**Languages:** Scala, Java, Python, SQL, JavaScript (TypeScript)

**Frameworks:** React, Jest, JUnit, Pytest, Bootstrap, Spring Boot, Django, Svelte

**Database Systems:** MySQL, MongoDB, Redis

**Infrastructure/DevOps:** Git, Docker, Terraform, Kubernetes, Helm, GitHub, GitLab

## EXPERIENCE

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### Software Engineer Intern

June 2025 – Sep. 2025

*The Trade Desk*

*London, United Kingdom*

- Designed & developed a Python GraphQL microservice and its asynchronous architecture from the ground up
- Adapted data pipelines written in Scala Spark to more efficiently process multiple terabytes of data every day. This led to a performance improvement of 195% or more in day-to-day operations
- Worked closely with the Data Science team based in the US to ensure data correctness and integrity
- Deployed the horizontally scalable service on Kubernetes using Helm with automated CI/CD from scratch

### Teaching Assistant

Sep. 2023 – Jan. 2025

*King's College London*

*London, United Kingdom*

- Assisted lecturers and professors by handling queries and working closely with students during lectures
- Taught tutorial classes to groups of 5-15 undergraduate students
- Corresponded with lecturers to deliver a 2 week exchange programme encouraging cultural and technical growth
- Nominated for Outstanding Teaching Assistant Award
- Topic of courses taught include data structures, algorithms, memory management, operational semantics, programming language design paradigms

### Full-stack Software Engineer Intern

June 2023 – Aug. 2023

*TMA Solutions*

*Ho Chi Minh City, Vietnam*

- Worked with experienced developers internationally on an ongoing project commissioned by clients in the U.S.
- Assisted in the development of an application used in the medical industry
- Gained experience working in an agile environment utilising Scrum and Kanban, participated and contributed during sprint planning meetings
- Implement endpoints & features for APIs built on Nest.js (TypeScript), Java Spring Boot, GraphQL, and MySQL
- Developed major features for an interactive webapp built on Bootstrap and React.js

## PROJECTS

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### SchemeVault | *TypeScript, Nunjucks, Terraform*

Nov. 2024 – Apr. 2025

- A web application created for Wiltshire's social workers to index, search, store, and renew schemes that benefit vulnerable families
- Done as part of the KCLxAWS Impact Accelerator project in collaboration with Wiltshire Council
- Lead a team of 3 software engineers by communicating and managing development milestones and deliverables, and managing overall project structure
- Helped manage deployment and infrastructure using HashiCorp Terraform, creating reproducible deployments

### Compiler and Interpreter for Functional Language | *Scala, JVM, LLVM*

Nov. 2023 – Jan. 2024

- Compiler built from the ground up with built-in POSIX regular expression matching for lexing
- Interprets and executes code real-time via Scala
- Code can be compiled to JVM bytecode or Low-Level Virtual Machine (LLVM)
- Compiled code can be executed in any modern operating system via the Java Virtual Machine

## EDUCATION

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### King's College London

London, United Kingdom

*Master in Science (Hons) Computer Science*

*Sep. 2021 – July 2025*

### The ABC International School

Ho Chi Minh City, Vietnam

*Cambridge International AS & A Levels (A\*A\*A\*)*

*Aug. 2019 – July 2021*