

Zain Saleem

Mobile: +44 (0) 7814 786871 | **Email:** zain.14saleem@gmail.com | **Github:** zains719 | **Website:** <https://zain719.co.uk/>

Education

University College London

2020 – 2024

- MEng Computer Science
 - o First class honours 78% - key modules: Systems Engineering, Software Engineering, Software Development Practice, Computer Systems, Applied Machine Learning, Applied Deep Learning, Machine Learning for Domain Specialists, Object-Oriented Programming, Algorithms and DS, Computer Architecture and Concurrency and Compilers
 - o Notable projects include: [Influenza surveillance using web search queries \(thesis\)](#), Covid 19 gene cluster analysis application for NTT Data, self-supervised image segmentation and Tetris AI bot,
 - o Technology director for TEDxUCL society. Lead a team of individuals across several disciplines, to collaborate on tech-related activities required for the society

Iford County High School/Sixth Form College

2013 – 2020

- GCSE's – 5 grade 9's, 1 grade 8, 3 grade 7's, 1 grade 6 (including grade 9's in both Mathematics and English)
- A-levels - Mathematics A*, Economics A*, Chemistry A*

Professional Experience

Bloomberg (Software Engineer Intern - Analyst and Sales Performance)

June 2023 - September 2023

- Designed and developed a prototype for TMSG Mobile, an established terminal application enabling clients to create, share and track the performance of trade ideas
- Implemented core read and write functionalities, facilitating trade idea creation, deletion and viewing for both personal and shared (network) views
- Quickly adapted to and mastered several internal technologies critical to the project's success, as well as enhancing Python and Docker proficiencies
- Leveraged internal service framework, BAS and Mobile SDK for backend and frontend development respectively
- Implemented comprehensive end-to-end unit, integration and system tests
- Configured internal telemetry in Humio and Grafana for proactive log monitoring and service performance assessment respectively
- Demonstrated project ownership by closely collaborating with the product team, fulfilling critical client requirements for TMSG Mobile

Microsoft (Software Engineer Intern - Aria)

June 2022 - September 2022

- Developed an end-to-end Spark Structured Streaming pipeline for translating Reflex Triggers, driving actionable alerts from defined patterns on aggregated data
- Enhanced proficiency of Spark Streaming through implementing both stateless and stateful aggregation triggers, incorporating window and watermarking semantics
- Delivered a visualisation dashboard using internal tools, facilitating result assessment by utilising diverse telemetry metrics
- Adapted existing production code to leverage cloud services like Event Hubs and Azure Synapse, enhancing compatibility with the streaming fabric
- Implemented end-to-end correctness tests cross-referencing results with original data using an internal query language

Peerr (Software Engineer Intern) - <https://peerr.io/>

July 2021 - September 2021

- Delivered the MVP for Peerr, a social learning quiz platform for medics in the UK, in preparation for the King's 20 Accelerator Programme and product launch
- Collaborated in a team of 5, orchestrating end-to-end B2C product creation, working on both application development and business strategy
- Developed both the front and backend of the web application using React and Next js respectively, with Firebase serving as a NoSQL database and authentication provider
- Integrated third-party platforms such as Mailchimp and Sendgrid for marketing and remarketing features within the product

Thatpart (Software Engineer Intern) - <https://thatpart.co/>

June 2021 - July 2021

- Developed web and app features for Thatpart, an app for saving and sharing podcast clips
- Furthered React and Next js proficiency by delivering production-ready code
- Utilised Remotion and Three js to programmatically create video templates for the new thatpart studio, a SaaS product offering podcasters video creation capabilities
- Implemented an internal tool for pre-generating podcast clips - leveraged NLP python libraries to execute text summarization and keyword extraction from the RSS feeds of podcasts

Skills and Interests

Skills

- Proficient in Python, Java, C, Javascript, Node.js
- Skilled in React, Next js, Docker
- Previous experience with Azure cloud services

Interests

- Great interest in a variety of sports including football, boxing and MMA
- Regularly buy antique furniture to upcycle or restore