Zain Saleem

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Education

University College London   2020 – Present
- Incoming Third Year MEng Computer Science
    - On track to achieve a first, with an 81% and 71% average in the first and second year - key modules: Principles of Programming, Algorithms and DS, Object-Oriented Programming, Compilers, Computer Architecture and Concurrency, Systems Engineering and Software Engineering.
    - Implemented several projects - the most enjoyable being the build of a Tetris AI auto player in Python
    - Technology director for TEDxUCL society. Lead a team of talented individuals, across several disciplines, to collaborate on tech-related activities required for the society.

Ilford County Sixth Form College   2018 – 2020
- A-levels - Mathematics A*, Economics A*, Chemistry A*

Ilford County High School   2013 – 2018
- 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)

Professional Experience

Microsoft (Software Engineer Intern)   June 2022 - September 2022
- Developed an end-to-end streaming pipeline using Spark Structured Streaming for translating Reflex Triggers - these are defined patterns on aggregated data that drive action alerts.
- Enhanced Spark Streaming knowledge through implementing both stateless and stateful aggregation triggers, incorporating window and watermarking semantics.
- Delivered a visualisation dashboard using internal tools to monitor and assess pipeline results through sending different telemetry metrics.
- Utilised different cloud services such as Event Hubs and Azure Synapse through modifying existing production code and sending data to a source more compatible with the streaming fabric.
- Implemented end-to-end correctness tests through querying results against original data using 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 to build a complete B2C product from the ground up, working on both application development and business strategy
- Developed both the front and backend of the web application using React and Next js, with Firebase serving as a NoSQL database and authentication provider.
- Incorporated third-party platforms including Mailchimp and Sendgrid, amongst others, to implement marketing and remarketing features in 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 unique video templates for the new thatpart studio, a Saas product providing video creation for podcasters
- Implemented an internal tool used for pre-generating podcast clips - using NLP python libraries to execute text summarization and keyword extraction from the RSS feeds of podcasts.
- Produced marketing strategies through user research - analysing specific user activity which increased user acquisition and experience by 15%

Krowd 9 (Software Engineer Intern) - https://apps.apple.com/gb/app/rival-scores-premier-league/id1265081797
June 2018 - August 2018
- Shadowed under lead iOS engineer on the ongoing world cup project at Krowd9, a sports football app company
- Innovated 2 new product features using Xcode and Swift which were published in the new updated release - e.g: displaying the new World Cup squads for each match fixture
- Evaluated and measured the impacts of these newly introduced features - collating a user satisfaction of 92%

Skills and Interest

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

Interests
- Great interest in a variety of sports including football, boxing and MMA
- Enjoy long-distance cycling, cycled from London to Brighton in 2018
- Regularly buy antique furniture to upcycle or restore