Zeshan Amjad (British Citizen)

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Mobile: Please set up a call via email

EDUCATION

- **Imperial College London** — London, UK
  BEng Computing — 1st Class Honours — Jun 2019
  - **Entrance Scholarship**: One of the **top ten** incoming undergraduates (out of 160).
  - **Palantir Project Prize**: *Real-time Footfall Analysis* - awarded for software engineering excellence solving an important real-world problem.
  - **IBM Web Apps Project Prize**: *HomeRate* - awarded for excellence in web app design and engineering.
  - **Most Outstanding Group Project Prize**: *The Round Pegs and Square Holes of Big Data.*

- **Rochdale Sixth Form College, Oulder Hill High School** — Rochdale, UK
  Maths, Further Maths, Physics, Extended Project (Artificial Intelligence) — 2009-2016
  - **A Levels**: A*A*A*A* **GCSEs:** $10 \times$ A*
  - **College Scholarship Programme**: Awarded for outstanding entrance grades.

EXPERIENCE

- **Morgan Stanley** — Canary Wharf, London
  Software Engineer — Jun 2018 — Aug 2018 (Intern), August 2019 — Present
  - **Elasticsearch Indexer**: Optimised and restructured a business-critical **Java** application used to populate an Elasticsearch cache, **reducing data update times by 75%** (from 20 minutes down to 5 minutes).
  - **Continuous Delivery Transition**: Led a 10-person squad's transition to continuous deployment; developed a CI pipeline that enabled continuous deployment to production, **saving 4+ days of developer time** per month.
  - **Treasury Web App**: Delivered a critical web app for internal clients 50% ahead of schedule, writing well-documented, maintainable and testable code in **TypeScript**, **Java** and **SQL**.

- **Facebook, Inc.** — Oxford Street, London
  Hack-A-Project Student — Jan 2018 - Mar 2018
  - **Fintech Dashboard**: Implemented a web dashboard integrating data from multiple fintech banks (*Starling* and *Monzo*) to improve users' financial behaviour with **intelligent recommendations**. Written using **Node.js** under the mentorship of Facebook engineers over 12 weeks.

PROJECTS

- **Realtime Footfall Analysis** - *Winner, Palantir Project Prize, Imperial College London*
  - Used **React**, **Redux**, and **Golang microservices** to build a **high-performance** web system used by event organisers to analyse the locations of their visitors in **realtime**.
  - Continuously deployed 9 distinct components to **Amazon Web Services (AWS)**, with load tests indicating that the system could **successfully auto-scale to support 150,000 concurrent users**.

- **Transport Delay Prediction (Dissertation)** - *1st Class Honours, Imperial College London*
  - Created a **horizontally-scalable, distributed machine learning orchestration system** with a **real-time React dashboard** for monitoring the training process.
  - Developed machine learning models to predict bus arrival times, beating the accuracy of the New York Metropolitan Transportation Authority's own predictions by **68.2%**.

- **HomeRate (Team Lead)** - *Winner, IBM Web Apps Project Prize, Imperial College London*
  - Led a team of four to develop a **web platform** for students to share reviews of their rented houses, using an **Agile**, **user-centred** workflow with weekly **iterative deliveries**.
  - Written in **Python (Django)** with a clean, information-rich design and integration with Google Maps APIs.