

Zeshan Amjad (British Citizen)

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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 × 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.