SAMIR ALI
COMPUTER SCIENCE GRADUATE

CONTACT

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EDUCATION

Goldsmiths, University of London
BSc (Hons) in Computer Science   Sept 2022 – June 2025

First-Year Grade: 1st Class
Second-Year Grade: 1st Class
Third-Year Grade: 1st Class (Expected)

Key Concepts Learnt:

- Computational Thinking
- Full-Stack Web-Development
- Numerical & Symbolic Mathematics
- Algorithms & Data Structures
- Theoretical Computer Science
- Databases
- Software Development
- Artificial Intelligence
- Data Mining
- Ethical Computing

SKILLS

- **Python**
  - NumPy
  - MatPlotLib
  - TensorFlow
- **NodeJS**
  - Express.JS
  - Web-Bundlers
  - TypeScript
- **Java**
  - SpringBoot
  - Maven
  - Kafka
- **Databases**
  - SQL
  - MongoDB
  - Redis
- **Web-Development**
  - HTML, CSS, JS
  - React.JS
  - TailWind
- **Cloud**
  - AWS
  - Azure
  - Git
- **Operating Systems**
  - Linux
  - MacOS
  - Windows

PROJECTS

Version 2 of my Portfolio Website (www.samir.cx)
Tech-Stack: Next.JS (TypeScript) + TailWind CSS, Hosted on Ubuntu-VPS.
- Modernised my website to better show my projects, skills and certifications.
- This second iteration has improved site performance and dynamic rendering.

Stock Price Tracker App (projects.samir.cx/TradeTicker)
Tech Stack: Express.JS (TypeScript) + TailWind CSS, with MySQL as the Database.
- Built a web-app to track stock prices in real-time, along with other features.
- Integrated relevant APIs and created interactive charts for trend visualisation.

Live Formula 1 Race Outcome Prediction (University Dissertation Prototype)
Tech-Stack: PyTorch + Python-FastAPI, with MongoDB as the Database.
- Developing a machine learning model to predict Formula 1 race outcomes.
- Building a web application to dynamically display predictions in real time.

CERTIFICATIONS

IBM - DevOps & Software Engineering Professional Certificate
Currently in-progress of completing this course on Coursera.
- Learning DevOps principles and Agile methodologies, including Scrum.
- Learning to create applications using Python, REST APIs, and libraries.
- Building microservices and deploying them using serverless technologies.
- Employing CI/CD tools like GitHub Actions for automation.

JPMorgan Chase & Co - Software Engineering
Completed a job simulation course on Forage.
- Integrated Kafka for real-time data streaming and an H2 database for efficient data management within a Spring application.
- Designed and exposed a REST API in the Spring application to facilitate seamless communication with external services.

Amazon Web Services – Solutions Architecture
Completed a job simulation course on Forage.
- Designed a scalable hosting architecture based on Elastic Beanstalk for a client experiencing significant growth and slow response times.
- Described my proposal in plain language for easy understanding.

VOLUNTEERING

Retail Assistant
Aug 2021 – Present.
At the British Heart-Foundation & Mind Charity:
- Assisted customers with inquiries and purchases, ensuring excellent service.
- Collaborated with team members to organise and maintain store appearance.

Work Shadow
July 2018.
At Lloyds Banking Group:
- I observed various teams within the digital banking business area
- Learnt about user experience design, and testing prototypes with customers.