

EDUCATION

Imperial College London – London, UK

Graduated July 2022

MEng - First Class Degree in Electrical & Electronic Engineering with Management

GPA: 78%

Key modules: Machine Learning, Optimisation, Network Security, Algorithms & Data Structures, Computer Architecture, Electronics

Technical skills: Python [★★★], Java [★★★], F# [★★], TypeScript [★★], C++ [★], ROS, Linux, Docker, Git, Android Studio, Agile

Languages: English (IELTS 8.5), German (Goethe B2), Turkish (Native)

Recognition: Awarded 2020 and 2021 Dean's List awards for Academic Excellence – Among top 10% of class in 2020, top 5% in 2021
Entrepreneurship – Engineers in Business Fellowship Prize for Tutti: An Amateur Orchestra Management Program

Enka Schools – Istanbul, Turkey

Graduated June 2018

IB (International Baccalaureate) Diploma and Anatolian High School Diploma

GPA: 38/45, 95.12% (Respectively)

Key modules: Higher Level Mathematics, Physics and English Literature

7, 7, 6 (Out of 7)

Recognition: IB Diploma Programme valedictorian, First place Academic Honours in Physics and German

Mimar Sinan Fine Arts University – Istanbul, Turkey - Part-Time Classical Piano Diploma (Distinction)

Graduated July 2017

Oracle – London, UK - Certified Oracle Cloud Infrastructure Associate

Certified October 2020

EXPERIENCE AND PROJECTS

Credit Suisse – London, UK

Software Engineer - Risk Technology

August 2022 – Present

- In cross-functional **agile** team, working on aggregating and enriching unstructured trade data from asynchronous sources
- Refactored legacy **Python** codebase leveraging concurrency and OOP, achieving a three-fold performance improvement
- Co-developed, own and support production deployment of new Python data processing component for global trade data
- Recently joined second team, contributing to the creation of an API for a stateless distributed Java app managing risk data

Imagination Technologies – London, UK

Competitor Performance Analysis Engineer (AI)

March – October 2021

- Built a novel test framework for rapid model deployment onto competitor Neural Network Accelerators, used **TensorFlow** and **ONNX** on **Python**, along with **Bash** and **C++**, accelerated data collection/testing processes of R&D team
- Used the framework to conduct analysis on one competitor's architectures, uncovered vital information for R&D team

Imperial College London – London, UK

"Dynamic Grasping with a Quadruped Mobile Manipulator" – Final-Year Project

2021 – 2022

- Implemented robotic system enabling BostonDynamics Spot robot and robot arm to move simultaneously to grasp objects
- Created vision, localisation and movement algorithms with **ROS**, **Python** and **C++** for fully autonomous dynamic grasping

"ISSIE Logic Simulator: Draw Block" – High-Level Programming Project

2020 – 2021

- Replaced JavaScript wire-drawing library of logic simulator with an efficient, functional **F#** library to improve performance
- Part of team that implemented the entire **F#** front-end framework for the logic simulator, the team's work got selected

Undergraduate Research Assistant (AI)

Summer 2020

- Employed novel temporal methods to design and train Spiking Neural Networks using **PyTorch**, achieved high accuracy
- Devised tutorials to help microelectronics professor with research about SNNs on low-power neuromorphic hardware

"VisuAid" – Second-Year Project

2019 – 2020

- Developed algorithms for graph visualisation device built by team, improved participation in math class for visually impaired

"Rover" – First-Year Project

2018 – 2019

- Directed team that built best-in-department rover analysing electromagnetic signals, wrote **Android app** for remote control

Independent – London, UK - "Malafatus" – Productivity App

2020 - Present

- Created **Android application** that aims to increase productivity by focusing on reducing time spent on habits instead

ACTIVITIES AND LEADERSHIP

Credit Suisse – London, UK

2022 – Present

- Social secretary, Analyst Programme committee - organising networking and philanthropic events for the analyst community

Imperial College London – London, UK

2018 – 2022

- Co-founded, then elected chair of a popular cultural society, recruited 100+ members, organised events with 400 attendees
- Mentored 10 students at the Global Summer School, 4 of which applied the following year and were offered a place
- Head Pianist of the Musical Theatre Society Pit Orchestra, joined with short notice and performed in three successful shows

STRENGTHS

Flexibility | Collaboration | Creativity | Organisation