DAVID JORGE

Email: david.jorge@gmail.com LinkedIn: linkedin.com/in/davidmanueljorge Github: github.com/highpreef Languages: Python, Java, C

EDUCATION

University of Edinburgh - Edinburgh — Sept 2017 - Present
MEng Electronics and Computer Science

- Average grade of **A2** (>80%) in honours years (year 3 and 4).
- Relevant courses: Applied Machine Learning, Computer Security, Software Testing, Algorithms & Data Structures & Learning, Functional Programming, Object Oriented Programming, Data and Analysis, Digital System Design, Probability, Computer Systems, Software Engineering.

St. Dominics International School - Lisbon — Sept 2009 - May 2017
International Baccalaureate

- Total of 39/45 (top 7% worldwide) points scored on the following subjects: Mathematics HL, Chemistry HL, Biology HL, Spanish AB Initio, English Language and Literature SL, Economics SL.

PROJECTS

Online Inverse Dynamics Learning using Sparse Gaussian Processes — Jun 2020 - April 2021
Honours Project Part 1.

- Built a Sparse Gaussian Process framework in **Python** to learn the inverse dynamics of a 7 Degree-of-freedom robot manipulator. Evaluated online learning performance of the model on the Kuka iiwa 7-DOF robot in a simulation.

Powergrab — Sept 2019 - Dec 2019

- Designed and programmed, in **Java**, the functionality for a computer game involving a drone flying around a map collecting coins and avoiding danger as part of the Informatics Large Practical course. Factory and Strategy Java Patterns were used with test driven development.

Spellchecker — Jan 2019 - May 2019

- Designed and programmed a fully functional spellchecker written in **C** and **MIPS** assembly language.

WORK EXPERIENCE

PA Consulting – Software Engineer Intern — July 2021 – Sep 2021, Cambridge
Part of the Software and Control Systems Capability.

- Key software developer for an independent client project on novel smart edge sensors using LTE-M technology. The embedded devices were coded using **MicroPython**, **AWS** was setup as the cloud service, and the frontend dashboard was created using **Python/HTML/CSS**.
- Volunteered to become the software developer for a separate project after previous one left. Developed an object detection model using **TensorFlow** for real-time use in a raspberry pi.

University of Edinburgh – Teaching Assistant — Sep 2020 – Dec 2020, Edinburgh
Worked as a lab demonstrator in the Foundations of Data Science course.

- Helping students solidify their understanding of the course material as well as guiding them through various coursework and exercises.

Deloitte – U@Deloitte Function Insight — July 2020 - Aug 2020, Lisbon
Part of the integration team.

- Used APIGEE, along with **HTML** and **JavaScript** to build API proxies to integrate the existing customer complaint portal managed using APPIAN to external services.
- Coded in **Python** to create a server using the Flask library to host an implementation of a machine learning model that would serve to predict the time a customer complaint would take to be resolved.

HONORS & AWARDS

3rd Year Class Medal — July 2020

- Awarded to the top overall student in the 3rd year Electronics and Electrical Engineering courses.

Academic Excellence — May 2017

- Awarded for outstanding academic performance to the top student of the year.

ABOUT ME

- **Programming**: Java (4 years), Python (3 years), AWS (<1 year), Haskell (1 year), Matlab (4 years), SQL (1 year), C (3 years), HTML (4 years), CSS (4 years), JavaScript (4 years), MIPS Assembly Language (3 years), Verilog (2 years).
- **Interests**: Piano, Guitar, Cycling.
- **Languages**: English (Fluent), Portuguese (Native).