Jacob Barbour

FIRST CLASS COMPUTER SCIENCE BSc (Hons)

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Personal Summary

Recently graduated with First Class Honours in Computer Science BSc from the University of Edinburgh. Highly motivated to learn and perform at a high level whilst simultaneously continuing my professional development. Passionate about all facets of technology and applying my skills towards practical outcomes that solve real-world problems.

Education

University of Edinburgh

Edinburgh, UK

First Class Computer Science BSc (Hons)

Sept 2020 - May 2024

- Received the 2024 Class Prize for Top Performance in Computer Science BSc (Hons) for attaining the highest overall grade out of my graduating cohort.
- Undertook a large variety of courses which aided in developing important workplace skills such as: time management, clear communication, and adaptability.
- Received a strong mathematical and theoretical grounding during my studies along with programming experience in various languages/technologies including: Java, Python, C, Haskell, R, and Verilog.
- Courses and grades:
 - Year 1
 - * INFR08025 Introduction to Computation A2
 - * INFR08020 Cognitive Science A2
 - * INFR08029 Object Orientated Programming A1
 - * MATH08057 Introduction to Linear Algebra A2
 - * MATH08058 Calculus and its Applications A3
 - * MATH08077 Introduction to Data Science A2
 - Year 2
 - * INFR08026 Introduction to Algorithms and Data Structures A3
 - * INFR08027 Introduction to Computer Systems A2
 - * INFR08030 Foundations of Data Science A3
 - * INFR08031 Discrete Mathematics and Probability A2
 - * INFR08032 Software Engineering and Professional Practice A3
 - * PHYS08050 Introductory Astrophysics A2
 - Year 3
 - * INFR09051 Informatics Large Practical A2
 - * INFR10057 Software Testing A3
 - * INFR10074 Computer Communications and Networks A2
 - * INFR10022 Professional Issues A3
 - * INFR10067 Computer Security A1
 - * INFR10064 Software Design and Modelling A2
 - Year 4
 - * INFR10044 Honours Project (Informatics) A3
 - * INFR10076 Computer Architecture and Design A1
 - INFR11238 Blockchains and Distributed Ledgers A2
 - * INFR11088 Extreme Computing A2
 - * INFR10079 Operating Systems A1
 - * INFR11219 Parallel Programming Languages and Systems A3
 - * INFR11249 Applied Cloud Programming A1
 - Individual course information can be found at:
 - * http://www.drps.ed.ac.uk/

Robert Gordon's College

Aberdeen, UK

2014-2020

Secondary SchoolSQA Higher grades:

- Mathematics A
 - English A
 - Physics A
 - Computing Science A
 - Business Management A

SQA Advanced Higher grades:

- Mathematics A
- Physics A
- Computing Science A
- In my final year, I received the Basil S. McLellan top prize for Mathematics alongside the third prize in Physics for my performance in both subjects.
- Received my Duke of Edinburgh Bronze award, which gave me invaluable experience and greatly improved my self-motivation in carrying out a large commitment.

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Work Experience

Graphcore Bristol, UK

Graduate Software Engineer

September 2024 - Current

• Working within the Software Infrastructure team.

JP Morgan Chase & Co. Glasgow, UK

Software Engineer Program - Summer Analyst

June 2023 - August 2023

• Worked within a public cloud team responsible for managing self-service infrastructure leveraging a combination of Amazon Web Services and HashiCorp Terraform.

- Built a cloud-native application to improve visibility for an internal release process, taking the project from end-to-end. Primarily worked on the backend implementing an ETL (extract, transform, load) workload in Java utilizing the Spring Framework. In order to ensure a performant solution, I learnt how to use Spring WebFlux along with reactive programming best practices to optimise the handling/processing of API interactions.
- Gained experience using Jenkins to implement a CI/CD pipeline to automate testing, container image building, and subsequent deployment of the application to an AWS ECS cluster via Terraform.
- · Business results achieved over the course of my internship culminated in an offer to return as a full-time graduate.

Freelance Edinburgh, UK

Higher Mathematics Tutor

January 2022 - May 2022

- Successfully tutored a Scottish secondary student from a C grade in their preliminary exam to an A grade in their final SQA examination.
- · Bolstered my ability to clearly transfer my understanding of a subject to others whilst adapting to their learning style and pace.

University of Aberdeen IT Services

Aberdeen, UK

Work Experience

June 2019

- Experienced multiple different departments including: Academic Applications working in full stack development, Corporate Systems working with Oracle SQL, the IT help desk offering support to end users, and the Web Team working in web development.
- · Garnered real world experience with the Agile methodology and its components such as user stories, sprints, and daily scrum meetings.

Certifications

Amazon Web Services Certified Cloud Practitioner - Issued 28th July, 2023

HashiCorp Terraform Associate (003) - Issued 21st August, 2023

British Computer Society Professional Member - Issued 12th July, 2024

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