

Ali Colver

Student at Imperial College London

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SOCIAL LINKS

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 AliColver

 Alisdair Cover

TECHNICAL SKILLS

Languages

Java • Kotlin • C • Go • Python
• Haskell • C++ • TypeScript •
HTML • CSS • Prolog •
JavaScript

Databases

MySQL • PostgreSQL • MS
Access • DataGrip • Datalog

DevOps

Docker • GitLab CI • CircleCI •
AWS • Heroku

Tools/Technologies

IntelliJ IDEA • VS Code • JUnit
• React • Redux • Bash • Git

SOFT SKILLS

Communication

Teamwork

Confidence

Problem Solving

Flexibility

CURRICULUM VITAE

Profile:

Inventive and people-focused Computer Scientist and Mathematician passionate about machine learning, data science, algorithms, and architecture. Experience of wide-ranging projects covering topics from operating systems to web apps that utilise machine learning.

ACADEMIC RECORD & WORK EXPERIENCE

Imperial College London

October 2017 - June 2020

Mathematics and Computer Science *Bachelor of Engineering (Honours)*

Upper Second Class (Expected)

Scott Logic

June 2019 - August 2019

Software Developer (*Intern*)

Learned valuable lessons about how to best apply my skills in industry.

Led team of four interns using agile and scrum methodologies.

Gained knowledge of how software companies and teams work, with daily stand-ups, client meetings, and demonstrations.

Musselburgh Grammar School

August 2011 - May 2017

Advanced Higher

A grade in Mathematics, Mechanics, Computing Science, and Physics.

Higher

A grade in Computing Science, Mathematics, Physics, Chemistry, English, and Music.

Teaching

Taught a first-year computing class throughout my final year at school.

Covered topics such as web development and basic programming in scratch.

Awards

Dux Medallist, Deputy Head Boy, Saltire Award for Volunteering, 1930s Club Memorial Prize, Laura Womersley Memorial Prize for Creative Writing

PROJECTS & COURSEWORK

C++ Automated Evaluation Tool (Python, C++)

Undertook a project working with Cambridge Spark to provide automated feedback on C++ programs written by students learning the language.

Evaluates code style, correctness, and overall quality.

Looking at You (React, TypeScript)

Assigned a project to create a pair of eyes that followed people as they moved around a room.

Uses computer vision, machine learning, and a custom-built position estimation algorithm to track a user.

Pintos (C, ARM Assembly) (1st)

Added priority scheduling, advanced scheduling and support for user programs to the pintos operating system.

Compiler for the WACC Language (Java) (1st)

Wrote the logic for both the front-end and back-end of a comprehensive compiler for the WACC language.

Achieved a perfect score of 100 on the back-end code generation half of the project.

WebApp (ReactJS, Java) (1st)

Developed a web app that allowed users to monitor their environmental impact.

Included barcode scanning, authentication, and travel tracking calculations.

REFERENCES AVAILABLE ON REQUEST

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