

ALEX BURNET

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EDUCATION & GRADES

2021 - Present

UNIVERSITY OF BIRMINGHAM

Computer Science:

- Predicted: Class 1
- 87% in OOP
- 87% in Full Stack Development
- 82% in DSA

Physics:

- Certificate of Higher Education
- 91% in Scientific Computing
(numpy, matplotlib for data manipulation and simulations in python).

2019 - 2021

BILBOROUGH COLLEGE

A - LEVEL

- A*, A, A - Physics, Maths, DT

2014 - 2019

THE FERNWOOD SCHOOL

GCSE

- 6 x Grade 9
- 2 x Grade 8
- 1 x Grade 7
- 2 x Grade 6

(9's in Maths, English, all Sciences)

ACHIEVEMENTS

- DoFE Bronze and Silver, Gold in progress
- Senior Leadership Team Prefect
- Awarded the Fernwood School Gold Award.
- Grade 7 Trumpet

INTERESTS & HOBBIES

- Strength Training
- Running - Recently completed couch to 5k
- Music - self-taught guitar
- Track days & Sim-Racing

PROFILE

At the University of Birmingham, a dedicated, motivated, and forward-thinking, with a profound enthusiasm for technology. A genuine passion for delivering top-tier results and thriving in collaborative environments that value innovation and problem-solving.

Dedicated to the field of computer science and eager to embrace challenges, positioned as a driven and reliable contributor to any project or team. Excited to apply academic knowledge and experience to tackle complex problems and deliver meaningful solutions in the world of technology.

EXPERIENCE

ABURNET (HAIR CONTAINMENT SOLUTIONS) LTD

Ilkeston, Nottingham

- Full Stack Development for mobile app and web app.
- Developed programs to optimise linear threading for machines, automate repetitive tasks (saving 3 days of manual work), analyse statistics related to knitting machine faults.
- Product Development - 3D printing and Laser cutting machine parts to increase machine setting precision.

HARVARD CS50X

Online edX course

- Proficient in C, Python, and SQL (Achieved 100% in all Labs & problem sets)
- Demonstrated dedication to self-directed learning and a commitment to continuous improvement in computer science knowledge and skills over an 11 week period.

GCSE TUTORING

- Tutored 3 students through maths GCSE (100% pass rate).

NOTCUTTS GARDEN CENTRE

Edwalton, Nottingham

- Customer service skills - strengthened ability to engage with and assist customers in a friendly, informative manner.
- Communication & Teamwork - enhanced ability to work collaboratively and communicate effectively with team members and management.

TECHNICAL SKILLS

PROGRAMMING LANGUAGES:

- Java, C, Python, JavaScript, HTML, CSS

FRAMEWORKS AND TOOLS:

- Flask, React, React-Native (Expo), Spring, Docker, PostgreSQL

DEVELOPMENT:

Full-stack application development:

- Developed and deployed systems for industrial applications with real-time machine fault tracking and analysis.

Mobile Development:

- Built a multi-platform mobile app for testing and improving hair containment knowledge. Featuring user registration & JWT authentication.
- Conducted real user testing and implemented changes from feedback.

Lightweight 3D Renderer:

- Minimal 3D rendering engine in Java, implementing orthographic projection, triangle rasterization, and basic shading.
- Interactive 3D viewer using only Java APIs.

SOFT SKILLS

- Leadership - Brass Section Leader for the Robin Hood Youth Orchestra for 2 years.
- Public Speaking - Often asked to present in assemblies and to the School Governors.
- Organisation & Time Management - Managed the itinerary for a group of visiting Chinese students within one week.