

# ALISTER DAVID

Abingdon, Oxfordshire | 07504242161 | alisterdavid03@gmail.com | www.alisterdavid.com

Adaptable and motivated aspiring software engineer with hands on experience in full stack development, real time systems, and data visualisation. Seeking a junior software or apprenticeship role to build on industry experience and contribute meaningfully to a development team.

## TECHNICAL SKILLS

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**Languages/Tools:** JavaScript, TypeScript, Python, React, Node.js, PostgreSQL, SQL, HTML/CSS, WebSockets, Express.js, Git

**Concepts:** Full stack dev, API design, Real time systems, Authentication, Data visualisation

## EXPERIENCE

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**Ophthalmic Theatre & Clinic Assistant** *NewMedica Private Eye Clinic, Oxfordshire* Feb 2024 – Present

- Assist in surgeries including cataract, oculoplastics, and vitreoretinal procedures.
- Support pre-op and post-op care, theatre preparation, and patient discharge.
- Perform OCT/autorefractor scans and scribe for consultants in diagnostic clinics.
- Proficient in OpenEyes and CPM for clinical and admin workflow.

**Apprentice Software Engineer** *IQHQ – Defence & Security, Malvern* Oct 2023 – Oct 2024

- Built export functionality for dashboard logs (SQL, Express.js, PostgreSQL)
- Integrated real time data capture for situational awareness device (React, WebSockets)
- Developed interactive data visualisation tools (HTML Canvas, Chart.js)
- Collaborated on full stack features in a secure, high-performance environment.

## PROJECTS

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### Ripple - React Chat App

Built a secure real time chat app with end-to-end encryption, online presence, JWT auth, and a Node.js + PostgreSQL backend.

### ADI Design Agency - Portfolio Website

Developed a responsive portfolio website with HTML, CSS, and JavaScript to showcase creative media and enable client enquiries.

## EDUCATION

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**Bachelor of Science In Computer Science** - Swansea University Sep 2021 - Feb 2023  
Programming, Professional Issues, Concepts of Computer Science, Modelling, Computing Systems.

**A Levels** - Cheney School Sixth Form Sep 2019 - May 2021  
Computer Science, Biology, Physics

**GCSE** - Cheney School Sep 2014 - May 2019  
Physics, Biology, English Literature, Geography, Religious Studies, Computer Science, Chemistry, History, Maths, English Language

## CERTIFICATIONS & EXTRACURRICULAR

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**CS50x COURSE** - *Harvard University, Online* Aug 2024 - Oct 2024  
Coursework in C, Python, SQL, algorithms, data structures and full stack web development.

**FLYING START PROGRAM** - *University of Oxford, Department of Physics* Oct 2019 - Feb 2020  
Weekly lectures on advanced physics topics for prospective STEM students.

**TECHNOLOGY & ENGINEERING COURSE** - *Oxford Scholastica* May 2020 - May 2020  
Built and presented websites in international teams; scholarship recipient.