

# Jake Callcut

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## TECHNICAL SKILLS

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**Languages and Technologies:** Python, Dart, SQL, Ada, Java, C#

**Tools/Frameworks:** Flutter, TypeScript, Git, Docker, JSON, APIs, OOP, Firebase

**Other:** Figma, RaspberryPi, Autodesk Fusion 360

## EDUCATION

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**Heriot-Watt University** | MEng Software Engineering

09/2022 – 06/2027

- On Track for First Class Honours
- Twice awarded the Deputy Principles Award for academic excellence
- Relevant Modules: Rigorous Methods for Software Engineering, Hardware-Software Interfaces, Computer Network Security, Data Mining & Machine Learning, Data Structures & Algorithms

**Torquay Boys' Grammar School**

- **A Levels:** Computer Science (A), Mathematics (A), Physics (A)

09/2020 – 08/2022

## RELEVANT EXPERIENCE

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**Squirrelle** | Software Engineer

06/2025 – Present

- Independently designed and developed the company's consumer mobile app and companion business platform, delivering end-to-end functionality from UI/UX to deployment.
- Contributed to investor pitches and funding applications, helping the startup secure grants and investment by showcasing technical feasibility and product potential.

**GI Healthcare Industries** | Software Engineer

08/2024 – Present

- Architected and implemented a multi-machine control system with a custom server-client design using Flutter, TypeScript, and Socket.IO, ensuring a high fault tolerance.
- Attended stakeholder product demonstrations, engaging with end-users to gather requirements, observe operational needs, and provide feedback to improve system reliability and usability.

**Heriot-Watt University** | Lab Assistant

09/2024 – 01/2025

- Assisted 25 students per week in debugging and refining their Java code, providing guidance on best practices

**GI Healthcare Industries** | UI/UX Design Intern

06/2024 – 08/2024

- Designed the front-end interface for a multi-machine control system, from low-fidelity wireframes to developer-ready handoff using Figma. Helping take the company's new product from TRL 3 to TRL 5.

## PROJECTS & EXTRA-CURRICULAR

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**Lumina** | Personal Project

- Engineered a smart home hub using Raspberry Pi and WebSockets, enabling reliable real-time communication between IoT devices and a central control system.
- Developed a Flutter-based web application to provide users with an intuitive interface for monitoring and controlling their smart home environment.

**eTextiles Hackathon** | The National Robotarium

- Worked with a team of 6 people with backgrounds in computer science and/or textiles during a 4-hour hackathon to develop a knitted smart glove written in JavaScript and using microcontrollers to silence alarms and output to household appliances.

**Careers in Technology Insight Event** | Speaker

- Engaged an audience of more than 50 students by sharing my personal journey and giving actionable insights.
- Demonstrated public speaking skills by giving an exceptional speech addressing the challenges and opportunities of working in the Technology industry.

## ADDITIONAL INFORMATION

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- Fully DBS-checked mathematics tutor (GCSE, Highers, A Level)
- Completed online certification on Investment Analysis & Portfolio Management, edX
- Actively manage a diverse portfolio, Analysing global markets, ETFs and tech companies