

JAMES BEAVIS

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Computer Science graduate from Cardiff University, achieving a First-Class Honours degree. Hands-on experience in machine learning, software development, and embedded technologies. Recognised with two awards for excellence during year-long industry placement at Dstl. Seeking a graduate role in software engineering.

EDUCATION

BSc Computer Science Cardiff University October 2021 – June 2025

- **Relevant Modules:** Web Applications, Principles Tools and Techniques for Secure Software Engineering, Database Systems, Artificial Intelligence, Forensics.
- **Achieved First-Class Honours.**

Davenant Sixth Form College, Essex

September 2019 – July 2021

- **A Level:** Computer Science **A**, English **A**, Psychology **B**. Extended Project Qualification **A**.

EXPERIENCE

Dstl, Software Engineer- Year In Industry 2023–2024

- Received a 75% grade for placement report and two awards for exceeding expectations.
- Created a novel system for underground positioning, reverse engineered a specialised Linux system using Docker, and created an embedded system for long range wireless communications.
- Developed 3+ internal tools for automation and testing used across multidisciplinary teams. Participated in weekly team standups, demoed work to internal stakeholders, and integrated feedback into development cycles, using CI/CD for development.
- Used technologies such as Python, GoLang, Autopsy, Linux, Docker, Arduino, and C/C++.

Part Time Work 2019-Ongoing

- Roles across customer service and childcare (M&S, King's Oak Pub, Red Balloon Foundation, Upper Crust).
- Developed strong interpersonal, teamwork, and problem-solving skills in fast-paced environments.

PROJECTS

Controlling IoT devices with our brain, eyes and facial expressions 2025

- Final year project at Cardiff University. Uses Scikit-learn.
- Machine learning-based control of IoT devices using facial expressions, eye movement, and brain signals (EEG, EMG, EOG). Trained on a dataset collected during development, achieved 96% classification accuracy across 4 biosignal classes. Used to control the playback of music in real-time.

Personal Website With Gemini API 2025

- Created a personal portfolio website using Flask, implementing Google's Gemini API to allow visitors to query my skills and experience.
- The website is currently accessible at <https://portfolio-website-6eie.onrender.com/>.

School Timetable Manager Ongoing

- Currently developing a tool for a small independent school which aims to allow a user to input a list of requirements and use this to create a school timetable via a backtracking search with constraints.

SKILLS

Languages: Python, C++, C#, Java, Go

Frameworks: Flask, .NET, React

Tools: Git, Docker, Linux, Arduino

Data/AI: SQL, Scikit-learn, MySQL

HOBBIES/ INTERESTS

- Bass guitar (learning, performance), videogame development (Unity), strength training