

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.
- Completed projects involving software engineering, computer forensics, radio engineering and creating prototype technologies using microcontrollers. Tested in a real-life scenario.
- 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++.

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/>.

Web Development Coursework, Cardiff University 2024

- Programmed a website for a fictional online shop. Stored and retrieved items in the shop from an SQL database. Achieved top marks (100%).

SKILLS

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

Frameworks: Flask, .NET, React

Tools: Git, Docker, Linux, Arduino

Data/AI: SQL, Scikit-learn, MySQL

REFERENCES

Alex Piazza – Line Manager at Dstl: ampiazza@dstl.gov.uk

Sandy Gould – Academic Supervisor at Cardiff University: GouldS@cardiff.ac.uk