

# SAM WATTS

sam.watts005@gmail.com | +44 7443 526226 | sam-watts.com | github.com/SamWatt5

## PERSONAL STATEMENT

Third-year Computer Science student at the University of Dundee with experience building full-stack web applications, mobile apps, and backend systems. Seeking a summer internship to apply my programming skills in a real development environment and learn from an experienced engineering team.

## EDUCATION

**University of Dundee – Dundee, UK** 9/23 – Present

BSc (Hons) Computer Science

- Relevant Coursework: Data Structures and Algorithms, Artificial Intelligence and Machine Learning, Operating Systems, Modern Web Development, Information and Network Security

**Cyberfirst Advanced – Edinburgh Napier University** 7/22

- Completed a week-long government-backed course covering network security, ethical hacking, digital forensics, and cryptography fundamentals.
- Took part in practical exercises focused on threat analysis and secure system design, building a foundation for further study in computer security.

**George Heriot's School – Edinburgh, UK** Graduated 2022

Advanced Highers: A – Mathematics, A – Computing, B – Physics

## SKILLS AND ABILITIES

- **Languages:** Python, Java, C++
- **Frameworks:** Flask, React, Vue, React Native
- **Databases:** MongoDB, MySQL, SQLite
- **Tools:** Git, GitHub, REST APIs, Linux

## PROJECTS

**Spotify Social Playlist App** (Flask, Vue, MongoDB)

- Built a full-stack web application that uses Spotify OAuth to generate collaborative playlists based on shared music tastes.
- Developed a RESTful API with session-based authentication and user data caching using MongoDB.

**AI Movie Recommendation System** (Python, Flask)

- Built a movie recommendation engine using similarity metrics and heuristic AI algorithms to generate personalised suggestions from a large dataset.
- Implemented a Flask backend to handle data processing and serving recommendations through an API.

**Songwriting & Audio Notes App** (React Native, SQLite)

- Designed and developed a cross-platform mobile application enabling songwriters to capture lyrics and record audio ideas in one place.
- Used SQLite for local storage and Expo APIs to access device hardware, enabling audio recording, file storage and playback.

## EXPERIENCE

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**Hackathon Participant – Dundee, UK** 3/24, 3/25

- Took part in two hackathons organised by the University of Dundee Computing Society.
- Worked in small teams to design and implement software solutions for industry-set projects.
- Contributed to idea generation, coding, and testing under time pressure

**Kitchen Porter, The Old Bell Inn, Edinburgh** 5/22 – 9/24

- Supported daily kitchen operations in a fast-paced pub environment.
- Worked closely with chefs and front-of-house staff during peak service times.
- Prioritised tasks effectively to keep operations running smoothly while meeting health and safety standards.
- Built strong teamwork and communication skills through long shifts and high-pressure situations.