

# SANJAY SATHIYARATNAM

## CONTACT

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## PROFILE SUMMARY

Motivated and adaptable Computer Science student with strong skills in full-stack web and mobile development. Experienced in building applications using Flutter, PHP, and modern web technologies such as HTML, CSS, JavaScript and Node.js. Proficient in leveraging AWS, Azure and Google cloud services to support scalable and efficient solutions. Demonstrated ability to work collaboratively in fast-paced environments through hackathons, research showcases, and tech expos. Actively seeking opportunities to apply and expand my expertise in software engineering and cloud-based development.

## EDUCATION

2022 - 2025

STAFFORDSHIRE UNIVERSITY  
LONDON

BSc (Hons) Computer Science

## PROJECTS & EXPERIENCE

### Final Year Project - Gamified Science Education App

- Designed and developed a hybrid mobile application to make science education more engaging for Gen Z students through the use of short form content and gamification.
- Integrated interactive elements and a user-friendly interface to enhance learning retention and participation.
- Focused on aligning with national curriculum content and tailoring the app's design to Gen Z learning preferences.

### University Hackathon with Binome - Cloud Team Member

- Collaborated in a cross-functional team focused on cloud-based infrastructure for a real-world project challenge.
- Gained hands-on experience with AWS services and learned how cloud solutions support scalability and efficiency in business environments.
- Contributed to architectural decisions and deployment strategies during the hackathon.

### AWS DeepRacer Event - Machine Learning in Action

- Participated in an AI and machine learning workshop using AWS DeepRacer at university.
- Trained autonomous cars to navigate a racetrack, optimizing lap times through reinforcement learning algorithms.
- Developed an understanding of practical applications of ML in autonomous systems
- My team placed second against 8 other teams.

### Research Poster Competition - Final Year Showcase

- Selected to present final year project at a university-wide research competition attended by industry representatives.
- Showcased project design, research findings, and technical implementation, receiving positive feedback from academic and professional audiences.
- Strengthened public speaking and communication skills in a technical context.

## SKILLS

### Technical Skills

- Full-Stack Development: HTML, CSS, JavaScript, Node.js, PHP
- Backend & APIs: RESTful APIs, MySQL
- Mobile Development: Flutter, Dart
- Version Control: Git, GitHub

### Cloud & Tools

- Cloud Platforms: AWS, Azure, Google Cloud
- Dev Tools: Visual Studio Code, Figma

### Soft Skills

- Strong Communication & Team Collaboration
- Problem Solving & Critical Thinking
- Adaptability & Willingness to Learn
- Public Speaking & Technical Presentation