Soorya Selvakumar

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PERSONAL STATEMENT

I am a recent graduate from Cardiff Metropolitan University with a degree in BSc (Hons) Computer Science - Artificial Intelligence, who is now pursuing a MSc Advanced Computer Science degree at Cardiff University. I am passionate about leveraging technology to solve real-world problems and continually seek opportunities to enhance my skills in programming, data analysis, and project management. With a strong foundation in Python, Java, and other technologies, I am eager to contribute to innovative projects that push the boundaries of what technology can achieve. My goal is to make a meaningful impact in the tech industry, particularly through AI-driven solutions.

EDUCATION

Cardiff University **Cardiff, Wales**
MSc Advanced Computer Science *September 2025 - Present*
- **Relevant Courses:** Programming Paradigms, Internet of Things: Systems Design, Principles of Machine Learning, Applications of Machine Learning: Natural Language Processing / Computer Vision, Developing Secure Systems and Applications, Distributed and Cloud Computing.

Cardiff Metropolitan University **Cardiff, Wales**
BSc(Hons) Computer Science - Artificial Intelligence *September 2022 - June 2025*
- **Final Grade:** First Class Honours
- **Dissertation Topic:** Design and Development of an AI-Driven System for Virus Signature Detection Utilizing Machine Learning.

EXPERIENCE

Minor League Cricket **Dallas, Texas**
Semi Professional Cricket Player *Sep 2020 – Oct 2025*
- Teams Represented: Dallas Mustangs, Kings XI Dallas
- Contributed to team success and enhanced team collaboration, communication, and critical thinking through participation in a semi-professional, high-performance environment.

Cardiff School Of Technologies **Cardiff, Wales**
Lead School Representative *August 2024 - June 2025*
- Served as the primary liaison between 600+ students and academic staff, collecting and analyzing feedback to address concerns and recommend improvements.
- Implemented initiatives to enhance student engagement, increasing participation by 35% through targeted events and outreach.

Emergere Technologies **Dallas, Texas**
Data Analyst Intern *June 2020 – Aug 2020*
- Adapted strategies effectively and improved team efficiency by 15% through the development of a robust data analysis framework.
- Delivered training sessions on data analysis concepts and introductory Python programming to over 20 individuals with diverse technical backgrounds.

PROJECTS

Design and Development of an AI-Driven System for Virus Signature Detection Utilizing Machine Learning Techniques - Cardiff Metropolitan University **Cardiff, Wales**
Project Researcher & Programmer *Sep 2024 - May 2025*
- Developed an AI-driven malware detection system using Random Forest, MLP, and XGBoost, achieving up to 0.9997 ROC AUC on a dataset of 2,000+ PE, Office, and PDF files, outperforming traditional signature-based antivirus methods.
- Applied Python, scikit-learn, and XGBoost for static feature extraction, model training, and evaluation, enhancing expertise in machine learning, feature engineering, and cybersecurity threat analysis.

ModernCity Application   **Cardiff, Wales**
Project Manager & Programmer   *Sep 2024 - Jan 2025*
- Developed a smart city guide desktop application using Java, JavaFX, and Scene Builder, featuring a modular UI for administration, tourism, student, job applicant, and business services, while implementing industry-standard MVC architecture with design patterns (Singleton, Factory).
- Established secure MySQL connectivity using SQL and Java, integrating full CRUD operations, robust exception handling, and unit testing to manage comprehensive city data reliably.

Coppell Mental Health Association   **Dallas, Texas**
Project Manager & Programmer   *Aug 2021 - May 2022*
- Led a three-member team to design and implement a secure mental health application using HTML, JavaScript, and Wix.
- Developed features such as a secure login system, therapist matching via questionnaires, and real-time student chat functionality, focusing on privacy and accessibility.

ACTIVITIES AND LEADERSHIP

Cardiff Met Asian Society   **Cardiff, Wales**
Founder & President   *April 2024 - June 2025*
- Coordinated 10+ cultural events and fostered an inclusive community by building partnerships with local organizations and other societies.
- Secured sponsorships and resources through collaborations with local businesses, driving growth and visibility.

Cardiff Metropolitan University   **Cardiff, Wales**
Student Ambassador   *Aug 2023 - June 2025*
- Organized and hosted campus tours and events to promote the university to prospective students.
- Assisted with the development and execution of marketing strategies to increase enrollment and retention rates.

Cardiff Met University Cricket Club   **Cardiff, Wales**
Performance Squad Player   *Sep 2022 - June 2025*
- Core First XI contributor to the 2025 BUCS Outdoor National Championship, delivering match-winning bowling performances in high-pressure fixtures.
- Ranked among the top wicket-takers at Cardiff Met University Cricket Club (35 wickets at 12.00 average, 3.70 economy), accounting for 24% of team wickets and anchoring the bowling attack.

SKILLS

Technical Skills: Java, Python, JavaScript, HTML/CSS, SQL, React, Expo, AWS, Git/GitHub, Object-Oriented Programming (OOP), Data Structures & Algorithms, Jupyter Notebook, Visual Studio Code, IntelliJ IDEA, PyCharm, Eclipse, Debugging & Testing, Microsoft Office.

Interpersonal Skills: Communication, Leadership, Problem-Solving, Teamwork, Creative Thinking, Adaptability, Time Management, Collaboration, Resilience, Accountability, Initiative, Professionalism, Reliability.

CERTIFICATIONS

- Great Learning: Introduction To Artificial Intelligence (2023)
- Great Learning: Python Fundamentals for Beginners (2022)
- AWS Academy Graduate: AWS Academy Cloud Foundations (2021)
- Opswat Academy: Introduction To CIP (2025)