

Emanuel Asante Amponsah

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Personal Statement

A highly motivated Computer Science undergraduate at Coventry University with strong skills in Python, SQL, C++, Node.js, data analysis and networking fundamentals. Experienced in developing databases, visualising data with Python and Excel, and working on distributed IoT systems. A quick learner and team player, eager to apply my skills through an internship or placement year in technology, data analysis, or cybersecurity. My career goal is to help organisations protect data, prevent cyber threats, and harness technology for innovation and efficiency.

Skills

- **Programming & Data Tools:** Python, SQL, C++, Numpy, Google sheet, Excel.
- **Web Development:** Front-end (HTML,CSS,JavaScript) & Back-end(Node.js).
- **Database Design:** Normalisation(1NF-3NF), relational schema design, SQL querying.
- **Data Analysis:** Data cleaning , trend analysis, sentiment analysis, customer insight.
- **Data Visualisation:** Dashboard, report, Python visualisation (NumPy/Matplotlib).
- **Systems & Networking:** Knowledge of computer hardware, Windows OS, and networking fundamentals
- **Research Methods:** Qualitative and quantitative analysis.
- **Emerging Tech:** Prompt engineering, AI driven analysis.
- **Soft Skills:** Communication, teamwork, critical thinking, adaptability, time management.
- **Learning & Growth:** Curious and eager to expand into system administration and scripting (PowerShell, Bash)

Education

Coventry University

2024 – Present

BSc Computer Science

Predicted Grade: First Class Honours

Key Modules: Artificial Intelligence, Advanced Algorithms, Working with data, Computer systems, Theory of computation, Integrative project, programming concepts and algorithms.

South Eastern Colleges

September 2023 – July 2024

Access to Higher Education Computing (Level 3)

Grades: D9, M15, P21

Key Modules: Computer Architecture, Computer Networks and Data Signification, Study Skills, Mathematics, Programming(java)

Projects & Course Work

MQTT Smart Home System

- Designed and implemented a smart home system using an MQTT-based distributed communication framework.
- Collaborated in a team to plan, develop, and troubleshoot the system, gaining experience with distributed systems, IoT, and teamwork in software development.
- Gained experience in IoT development, real-time communication, and teamwork.

Couch to Coder (Bright Network)

- Learned web development basics, data structures, front-end & back-end development, and built a small full-stack project.

Database System

- Developed a database management system for a mock small business using MS Access, improving organization and reporting efficiency.
- Created clear and structured PowerPoint presentations to showcase project outcomes, receiving positive feedback.
- Applied problem-solving and critical thinking to resolve project challenges and improve functionality.

Professional Experience

Data Analyst Intern – Extern, Remote, United States

April 2025 – July 2025

- Cleaned, Structured, and analysed raw datasets using python, Google sheets, Google Colab and AI tools.
- Applied qualitative and quantitative methods, including sentiment and trend analysis to uncover insights.
- Created dashboards and visual reports to communicate findings to both technical and non-technical stakeholders.
- Delivered customer insight reports that supported strategic decision-making.
- Applied prompt engineering to improve efficiency in AI-assisted data analysis and reporting.

Technology and Engineering Intern – Bright Network, Remote

July 2025

- Strengthened communication and teamwork through collaboration on daily projects.
- Developed time management skills by meeting deadlines across multiple tasks.
- Applied critical thinking to case studies and project tasks, presenting solutions in a professional context.
- Gained exposure to web development, coding challenges, and IT management.

Cleaning Operative – Mitie

March 2023 - January 2025

- Maintained high cleanliness standards in corporate and public spaces, ensuring safety and hygiene.
- Supported team efficiency by assisting colleagues with tasks and covering responsibilities when needed.
- Played an active role in onboarding and training new team members, demonstrating proper use of tools and safety protocols.
- Gained experience in time-sensitive task management and maintaining attention to detail in fast-paced environments.

Extracurricular Activities

- Coventry University Computing Society: Engaging in coding challenges, hackathons, and workshops to enhance technical skills and network with peers. Collaborated with peers on projects exploring Python, data structures, and software development.
- Volunteer Drummer (Church): Supporting church events through music, demonstrating teamwork, discipline, and commitment.

Certifications

- Google Artificial Intelligence & productivity – Santander Open Academy(2025)
- Couch to Coder – Bright Network (2025)