

Amanda Shpendi

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Computer Science & Electronic Engineering MSc Graduate

A First-Class graduate in Computer Science and Electronic Engineering with top honours across three degrees. Recognised as a top-performing student, I build full-stack projects end-to-end (APIs, databases, front-ends), automate workflows, and write clean, tested code. Recent work includes a care rostering platform (FastAPI + PostgreSQL + Streamlit), a .NET MAUI cross-platform app, and several production-ready mini apps. Seeking a junior software engineer role where I can contribute quickly and keep learning.

Education & Qualifications

Computer Science MSc

Ravensbourne University, London | 2023 – 2024

First Class Honours | Overall Grade: 80%

Key Modules: Advanced Programming | Mixed & Virtual Reality | Web3 & Cloud | Innovation | Negotiated Practice

Thesis: The Impact of Internet of Things Technologies on the Tourism Industry | Grade: 82%

Electronic Engineering MSc

Polytechnic University, Tirana | 2018 - 2020

First Class Honours | Overall Grade: 77%

Key Modules: Simulations of Telecommunication Networks | Advanced Digital Signal Processing | IT Applied Electronics |

Security in Computer Networks | Project Management | Controlled Computer Architecture

Thesis: Mobile Ad Hoc Networks: Performance of Different Routing Protocols | Grade: 90%

Electronic Engineering BSc

Polytechnic University, Tirana | 2015 - 2018

First Class Honours | Overall Grade: 71%

Key Modules (Grade %): Algorithm & Advanced Programming | Computer Architecture | Digital Signal Processing | Power Electronics | Data Transmission networks | Programmable Electronics System | Electronic Telecommunication

Dissertation: Voice and Balance controlled LEDs | Grade: 80%

Technical Skills

- Languages: Python, Java, JavaScript/TypeScript, C#, C++, SQL,
- Frameworks: .NET MAUI, Flask, FastAPI, React, Streamlit, Tailwind, Vite, SQLAlchemy, Jinja2, shadcn/uiSQLite
- Databases: PostgreSQL, SQLite
- DevOps & Tooling: Git/GitHub, Docker & Compose, Node.js, Vite, GitHub Actions (CI), pgAdmin, VS Code, Visual Studio
- Architecture & Practices: REST APIs, auth & session management, state machines, data modelling/ERD, testing mindset (unit/integration), Agile/Scrum
- Hardware/data: Raspberry Pi GPIO (gpiozero), Arduino, Power BI for quick visuals
- Concepts: Machine Learning, Deep Learning, Microservices, RESTful APIs, CI/CD, TDD, Agile Scrum

Key Projects

Care Rostering System

- Lightweight care-rostering platform (staff & service users, availability, assignments, needs).
- FastAPI + PostgreSQL (Docker compose) with OpenAPI; Streamlit dashboard for CRUD/visuals.
- Normalised schema + ERD, seed data, persisted volumes; built for easy extensions (RBAC, calendar, AI).

Student Information System (SIS)

- Developed a cross-platform application using .NET MAUI and C# to manage student data and academic progress.
- Implemented user authentication, real-time updates, automated performance reports, and scalable support. Integrated SQLite for efficient data management and adhered to Agile methodology for iterative development.
- Delivered an intuitive system that streamlined tasks and enhanced communication between students and faculty.

Personal Portfolio Website

- Designed and built a responsive, accessible portfolio with a clean component system.
- Implemented a Featured vs All Projects model with data-driven content, video demos, screenshots, and GitHub links.
- CI-friendly structure, easy to extend by dropping new entries in the data layer.

Raspberry Pi Traffic Lights

- Built in Python, this showcases safe GPIO, state machines, and a production-style README with wiring and timing configurations.
- Finite-state controller (Red → Red+Amber → Green → Amber) plus debounced pedestrian button.
- Demonstrates safe GPIO, state machines, and production-style README with wiring and timing configs.

IoT in Tourism: Enhancing Visitor Experience and Operational Efficiency

- Conducted research on the integration of IoT technologies in tourism to improve visitor satisfaction and streamline operational processes.
- Using the UTAUT framework and SmartPLS for data analysis to evaluate user behaviour and technology acceptance.
- Identified key IoT applications, such as personalised navigation systems and smart accommodations, and their impact on the tourism industry.
- Proposed strategies for challenges like data security, privacy, and infrastructure limitations to enhance IoT adoption.

Professional Experience

DATA CLOUD COMPANY

Tirana, Albania | January 2023 – September 2023

DataCloud is a technology solutions provider based in Tirana, specialising in software development and data services for a range of local and international clients.

Software Account Manager

Managed software accounts for local and international clients by translating business requirements into technical solutions, supporting data reporting, and ensuring the successful deployment and adoption of software systems.

- Collaborate with clients to understand and cater to their specific needs, ensuring system optimization.
- Develop customized reports using Power BI in response to client requests, presenting findings in an accessible manner.
- Continuously liaise with clients to suggest improvements and ensure their satisfaction.
- Actively acquiring skills in Laravel for enhanced report generation.
- Troubleshoot client issues in a timely and effective manner, reducing potential downtime and fostering trust.

SEWS-CABIND

Tirana, Albania | January 2021 – January 2022

SEWS-CABIND is a multinational company specializing in the design and manufacturing of automotive wiring harnesses. It operates as a subsidiary of Sumitomo Electric Industries.

Training Specialist

Contributed to the development and production of complex wiring harness systems for industrial and agricultural vehicles, as part of a multinational operation with sites in Italy, Morocco, Poland, and Albania.

- Designed and conducted training sessions, enhancing employee understanding and skills.
- Assessed trainee performance and collaborated with supervisors to ensure optimal team placement.
- Developed a feedback loop with trainees, ensuring that their concerns and suggestions were addressed promptly.
- Facilitated communication channels between trainees and supervisors, leading to a harmonious work environment.

WORK AND TRAVEL

New Jersey, USA | October 2019 – October 2020

Work and Travel is a U.S. cultural exchange programme that allows international students to gain work experience while exploring American culture during their university holidays.

Customer Service Assistance

- Engaged in roles as a waitress, hostess, and market associate, offering superior customer service.
- Handled monetary transactions, responded to customer inquiries, and ensured overall satisfaction.
- Demonstrated adaptability by swiftly integrating into new work environments and mastering diverse job responsibilities.