

# 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 (gpiodzero), 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.