Gregory Paphiti

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PROFILE

As a dedicated graduate with a Bachelor's Degree in Computer Science and Electronic Engineering, and currently pursuing a Master's degree in Computer System Engineering at the University of Glasgow, I possess a solid foundation in both software development and hardware integration. I am particularly interested in cybersecurity, with planned coursework that includes threat analysis and mitigation. I have hands-on experience with Arduino-based projects, cloud services, and app development, demonstrated through academic and internship work. I am eager to apply my technical skills and innovative thinking to challenging projects in a collaborative team environment.

EDUCATION & QUALIFICATIONS

MSc Computer System Engineering, University of Glasgow — Sep 2024 – Present

Planned Coursework: Cyber Security (Focus on threat analysis and mitigation), Data Science and Systems, Human-Computer Interaction, Real Time Embedded Programming

BEng Computer Science and Electronic Engineering, University of Liverpool (2:1) Sep2021-June 2024

Relevant coursework:

- **Software Engineering:** Gained insights into software development methodologies.
- **Database Development:** Developed skills in data management and retrieval.
- **Digital Electronics & Microprocessor Systems:** Acquired knowledge in digital system design and microprocessor functionality.
- **Application Development:** Enhanced programming skills, focusing on C++ application development.
- **Dissertation:** Achieved a First Class grade for my IoT-based Automated Irrigation System with User Controlled Mobile Interface

Pascal English School Larnaca — Sep 2014-June 2020

- **Apolytirio Leaving School Diploma**, Final Grade: 88.9%
- **Relevant Subjects(A Level/GCSE):** Information and Technology - Grade B, Pure Mathematics 1 - Grade A, Pure Mathematics 2 - Grade A, Further Pure Mathematics - Grade A

KEY SKILLS

- **Programming Languages:** Python, Java, C++, MATLAB, JavaScript, Arduino
- **Technical Skills:** Arduino-based Hardware Integration, FreeCAD 3D Object Design, Cloud-Services, Remote-Application Development, MySQL/XAMPP, Experience with Data Structures and Algorithms, JUnit 5 Testing,
- **Soft Skills:** Team Collaboration, Analytical Problem-Solving, Communication, Project Management

WORK EXPERIENCE

Research & Innovation Intern | Cyprus Research & Innovation Centre — Juny 2024-August 2024

- Contributed to the development and testing of a route optimization system for Cyprus Post Office, aimed at improving the efficiency of postman routes by minimizing time and distance for letter collection.
- Developed new mobile app features, including real-time route tracking and data validation, improving efficiency and complexity during live testing scenarios by 20%.
- Created a Python data analysis script to process and analyse test data, improving data analysis efficiency by 20%, enabling faster and more accurate decision-making.
- Developed a Java-based application to monitor sensor status and send automated email notifications.

Soldier | Cypriot National Guard **Jul 2020-Sep 2021**

- Gained hands-on experience in tank maintenance, ensuring operational efficiency and safety.
- Developed a strong understanding of mechanical systems, troubleshooting, and routine inspections.
- Strengthened teamwork, problem-solving, and technical skills in high-pressure environments.

Agriculture-Watermelon Production | Family-owned business **Apr 2018-Sep 2023**

- Inspected material prior to production to ensure authenticity and quality.
- Completed production orders within strict deadlines.
- Structured a hardworking mentality under different circumstances either caused by weather or schedule.

Customer Service | A&P Convenience store LTD **Apr 2018-Sep 2021**

- Worked to achieve high customer satisfaction rates by providing optimal customer service.
- Managed cashier duties and maintained efficiency during peak hours.

MAJOR PROJECTS

Sensor Monitoring & Notification System **June 2024**

- Developed a real-time configurable sensor monitoring system with JUnit 5 testing using Java that connects to a MySQL database hosted on XAMPP, tracking the activity of various sensors during my summer internship.
- To improve system responsiveness and dependability, an email notification system was developed to notify stakeholders when sensors were judged inactive based on an automated analysis script. The system also notified stakeholders when the sensors returned online reducing manual sensor checks by 50%.

Automatic plant irrigation System with Remote user-controlled app **BSc Year 3, Final Year Project**

- Designed and developed an IoT-based automated irrigation system using Arduino, integrating sensors and water pumps to optimize water usage.
- Implemented a cloud-based control system for remote monitoring and management, demonstrating strong software-hardware integration skills.
- Achieved a First Class in the project, showcasing the ability to manage the entire software development lifecycle, from requirements gathering to deployment and testing.
- Documented the project through a comprehensive technical blog, providing insights into **system design** and **implementation**: IoT Irrigation Blog.

Gesture-Controlled Car (Group Project) **BSc Year 2, 2nd Semester.**

- Designed a gesture-controlled car using a gyroscope for intuitive vehicle control.
- Developed control systems ensuring precise manoeuvring based on hand movements.

Obstacle Avoiding Car (Group Project) **BSc Year 1, 2nd Semester.**

- Built an obstacle-avoiding car using amplifiers, light resistors, light emitters, and logic gates.
- Enhanced teamwork and technical skills through collaborative design and implementation.

Certifications & Training

- **Foundations of Data Science**, Google Coursera – July 2023

ADDITIONAL INFORMATION

- **Languages**: English (Fluent), Greek (Native)
- **Interests**: Enthusiastic about technology and innovation with a strong interest in sustainable development and environmental conservation. Passionate about agriculture and continue to be involved in family-owned agricultural activities in my free time.