PAULINA CZARNOTA

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Portfolio: https://github.com/PaulinaCzarnota/Portfolio-Website

EDUCATION

2021 – Present   **BSc (Hons) Computer Science**, *Technological University Dublin, Dublin 7*

3rd Year   **Predicted Grade:** 2.1 (Hons)

Key Modules: Operating Systems, Object-Oriented Programming, Client-Server Programming, Web Development, Software Engineering, Databases, Mobile App Development, Cloud Computing, Algorithms and Data Structures, Introduction to AI, Software Testing, Cryptography and Cyber Security, Introduction to DevOps, Universal Design and Assistive ICT

Key Skills:

- **Programming Languages:** Python, Java, JavaScript, Node.js, C, Kotlin, PHP, SQL, PL/pgSQL, Bash, PowerShell
- **Development Tools & Platforms:** Microsoft Office Suite, Git, GitHub, Docker, Kubernetes, Vagrant, Visual Studio Code, PyCharm, Android Studio, Oracle VirtualBox, Command Line (CMD, Bash, PowerShell)
- **Databases & Systems:** MySQL, MongoDB, PostgreSQL, DBeaver, Ubuntu, Windows, Linux

2015 – 2021   **Leaving Certificate**, *Mount Carmel Secondary School, Dublin 1*

CAO Points: 480

Subjects:

- **Higher Level:** History H3, Home Economics H3, Business H3, French H4, Polish H3
- **Ordinary Level:** English O1, Maths O1

KEY PROJECTS

November 2024   **Web-Based Music Player Application**

- Developed a web-based music player application with user roles (Subscribers and Administrators) to manage playlists and tracks. Designed core features like track management, playlist creation, and error handling using UML diagrams in IBM RSAD.
  https://github.com/PaulinaCzarnota/Software-Engineering-3-CA1-Assignment-2024-25

April 2023   **Graph Algorithms and Traversals**

- Implemented graph algorithms in Java, including Prim's and Kruskal's for minimum spanning trees, Dijkstra's shortest path, and graph traversal methods. This project emphasized efficient algorithm design, demonstrating a clear understanding of graph theory applied to real-world scenarios.
  https://github.com/PaulinaCzarnota/Algorithms-and-Data-Structures-CA-Assignment-2022-23

December 2022   **Library Management System**

- Developed a library management system website using HTML, CSS, PHP, and MySQL on XAMPP, implementing CRUD functionality to manage books and members. Prioritized a user-friendly interface and secure data handling for users and administrators.
  https://github.com/PaulinaCzarnota/Web-Development-2-CA-Project-2022-23

PROFESSIONAL EXPERIENCE

March 2019   **Childcare Worker,** *Pitter Patter Community Creche & Pre-School, Dublin 7*

- Provided comprehensive care for children aged 1 to 5, including feeding, cleaning, and engaging in educational activities.
- Developed and implemented creative learning activities, improving children's problem-solving and communication skills.

March 2019   **ESB STEPS Engineering Your Future Programme,** *ESB, Dublin 3*

- Participated in engineering challenges, assisted with calculations and experiments, and engaged in project-based learning.
- Collaborated with peers to solve complex engineering problems, enhancing teamwork and problem-solving skills in a practical setting.

November 2018   **Retail Sales Assistant and Deli Assistant,** *Eurospar, Dublin 11*

- Managed stock and provided customer service while adhering to HACCP guidelines for food safety.
- Prepared and served deli items, ensuring a clean and efficient store environment.

October 2018   **A&L Goodbody Step In Programme,** *A&L Goodbody LLP, Dublin 1*

- Developed an understanding of legal documentation standards, corporate legislation, and professional communication through workshops and practical sessions.

INTERESTS & ACHIEVEMENTS

Leadership

- Served as Class Representative in secondary school, advocating for students' needs and facilitating communication between peers and faculty.

Community Engagement

- Volunteered at Friends of the Elderly Ireland from September 2018 to January 2019, organizing weekly events and activities for the elderly.

Professional Development

- Pursued continuous self-learning through online courses, including The Web Developer Bootcamp 2024 and Cybersecurity Vulnerability Management courses on Udemy.

ADDITIONAL SKILLS

- **IT Skills:** Skilled in secure coding, unit testing, debugging, documentation writing, accessibility auditing, and technical problem-solving.
- **Collaboration & Communication:** Proven ability to work effectively in academic and technical teams; fluent in English and Polish; skilled in presenting technical concepts and producing professional documentation.
- **Analytical Thinking:** Capable of identifying, analysing, and resolving complex technical challenges using logical and creative approaches.
- **Attention to Detail:** Committed to writing clean, maintainable, and accessible code with a strong focus on quality, compliance, and precision.
- **Adaptability & Learning:** Quick to learn new technologies, development methodologies, and workflows; proactive in continuous technical and professional development.
- **Time Management:** Efficient in prioritizing tasks, organizing workloads, and meeting deadlines across academic, technical, and project commitments.