

Ricardo Victor

Computing Science Undergraduate

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Objective

A highly motivated second-year Computer Science student with a firm understanding of programming languages, data analysis, and software design. Eager to contribute to transformative projects by leveraging cutting edge technology to solve real world problems. interested in roles related to Software Development/Engineer, systems security, Data analytics, QA and Backend development, with a commitment to continuous learning and professional growth.

Technical Skills & Key Projects

- **Programming Languages:** Java, Python, JavaScript, TypeScript (Basic), SQL, PHP
- **Software Development:** Agile, Scrum methodologies, unit testing, debugging
- **Backend Technologies:** Docker, Azure, Git, server-side frameworks (Laravel)
- **Frontend Development:** HTML, CSS, JavaScript, responsive design principles
- **Data Analysis:** Power BI (Coca-Cola sales dashboard), NumPy, SciPy, SQL (data management)
- **Cybersecurity:** Network traffic analysis with Wireshark, encryption techniques
- **Tools & Technologies:** Visual Studio Code, Git, Microsoft Office Suite (Excel, Word, PowerPoint)
- **3D Design:** Blender, SolidWorks, Autodesk Maya (robotic arm, machine components)
- **Operating Systems:** Windows XP/7/10/11, Linux (Ubuntu) – Installation, configuration, and troubleshooting.

Key Projects

- **Student Enrollment System:** Developed a student management system in Java, implementing user authentication, student record lookup, and deletion functionalities. Enhanced the system's usability with a simple interface and efficient SQL queries for managing student data.
- **Job Posting Website:** Developed a backend system for a job posting website using **PHP (Laravel)**, supporting job listings, user authentication, and application management. Implemented secure authentication and validation for user inputs. Utilized **Git** for version control, enabling easy reversion to previous versions. Leveraged **Docker** for containerization, ensuring smooth deployment and scalability of the application.
- **Camera Data Analysis:** Used Python, NumPy, and SciPy for motion analysis; created interactive visualizations with custom algorithms for detecting irregularities.
- **Portfolio Website:** Built a responsive portfolio using HTML, CSS, and JavaScript; optimized for mobile/tablet compatibility.
- **Make 11 Card Game:** Designed and implemented a Java-based card game where the player competes against the system to achieve a score of 11. Integrated logic for system moves and scoring, showcasing object-oriented programming (OOP) principles and algorithm design.

Education

BSc Computer Science, Ulster University

09/2022 – 05/2026 | Belfast

Foundation Year Modules - Digital Media Tools (73%), Creative Technologies (67.35%), Foundation Mathematics (52%), Creative Design Thinking games (53%)

Year 1 Modules – Programming I Python (55%), Programming II Java (60%) Database Systems (48%), Interactive Web Authoring (59%), Systems Software (56%), Computer Technology (62%)

Year 2 Modules – Professional Development(57%), Computer Networks (70%), Programming in Practice (56%), Software Product and Process Management (59%), Mathematics for Computing (48%), Server Side Development (69%), Systems Security (59%)

Level 3 National Diploma in Information Technology,

Portadown Southern Regional College

09/2019 – 05/2021 | Portadown

Grades – Double Grade Distinction (D, D)

GSCE's, Lismore Comprehensive School

09/2017 – 05/2019 | Craigavon, Armagh

Grades – English Literature (C), English Language (C), Vehicle Servicing (Pass), Single Award Science (C), Engineering Services (Merit), Music (C), Prince's Trust Level 2 (Merit), Mathematics (B)

Work Experience

Tayto, Packing/Machine Operator

06/2023 – 09/2023 | Tandragee

- Operated and monitored automated machinery to ensure efficient and accurate cooking and processing of crisps, adjusting machine settings to avoid errors like overcooking.
- Followed safety protocols and utilized process optimization techniques to improve machine efficiency and ensure smooth operations.

Tesco, Customer Assistant

09/2018 – 05/2019 | Portadown

- Stock control and management
- Shelf Stacking
- Customer Services

KFC, Customer Service

07/2017 – 09/2018 | Portadown

- Assist in stocking supplies
- Making sure lobby is kept clean
- Cashier duties

- **Music Sound Box (Foundation Year Project):** Designed and built a music-playing sound box using a breadboard and buttons for user interaction. Developed software to interface with the hardware, triggering specific sounds when buttons were pressed. This project demonstrated skills in **embedded systems, hardware-software integration**, and **programming**.
- **Coca-Cola Sales Dashboard:** Built an interactive Power BI dashboard with dynamic timelines, conditional formatting, and AI-powered Q&A features.
- **2D/3D Modelling:** Gained hands-on experience in 3D modeling and technical design. Modeled a robotic arm in Blender and designed machine components such as flanges in SolidWorks, improving my understanding of CAD and manufacturing processes.

Hobbies

Guitar Jazz · Fitness (Powerlifting, Strength/ Athleticism Training) · 2D/3D Modelling (Autodesk Maya and Blender) · Basketball

Reference

Mr Miguel Granada, Private Guitar Tutor, 335 Pine back, Craigavon, Co. Armagh, BT65 5BZ, Tel No: 07510877603, Email: miguelangelogranada@gmail.com [✉](#)

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