Ciaran
Engelbrecht

About Me

Driven Computer Science student at the University of Western Australia with a strong foundation in software development and systems programming. Known for reliability, teamwork, and strong time management. Sharpened leadership and communication with a proven track record in delivering quality IT solutions and fostering continuous improvement. I have a diverse skill set in software development, ranging from web development and networking to AI and systems programming. My projects demonstrate my ability to apply theoretical knowledge to practical problems.

CONTACT

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CERTIFICATIONS, QUALIFICATIONS & TRAINING

- CompTIA Network+
- Cisco: Introduction to Data Science
- Working with children certificate (WCC)
- Manual handling & CPR training
- Mandatory reporting & child protection procedure CEWA
- Current Australian police clearance certification

EMPLOYMENT

CEWA
2021-2023

IT Help Desk Technician Delivered level one IT support in an educational setting, performing device, AV, and network troubleshooting.

ITDynamics
2023-Present

IT Systems Engineer Oversee IT systems maintenance, setup, and troubleshooting. Implement MDM rollout and provide end-user technical support, adhering to service level agreements. Document IT solutions and contribute to the knowledge base.

EDUCATION

University of Western Australia

Expected Graduation mid 2025

Bachelor of Science: Computer Science

Edith Cowan University

Bachelor of Science: (Registered Nursing)

Irene McCormack Catholic College

Subjects: Applied Information Technology ATAR; Chemistry ATAR; Literature ATAR; Mathematics Methods ATAR; Physics ATAR; Religion & Life ATAR

PROJECTS github.com/ciaranengelbrecht

Algorithm Implementations in Java: Implemented various algorithms and data structures in Java.

Hexadecimal Converter Tool: Created a tool for converting hexadecimal values.

AI and Agent-Based Models: Implemented AI algorithms and agent-based models.

Akari Puzzle Game in Java: Developed a puzzle game in Java.

Chemical Equation Balancer: Created a project to balance chemical equations using Java.

File Duplicate Detector in C: Built a C program to detect duplicate files.

Graphics and Animation Project: Applied graphics and animation techniques in a project.

Networking Server Online Testing: Developed a network-based system with a Test Manager and Question Banks, using HTTP and socket programming.

iFixit Ontology and Knowledge Representation: Worked on knowledge representation and ontology with functional web application.

Relational Database Management: Designed and managed relational databases.

OCR Table Extraction Project: Implemented Optical Character Recognition (OCR) techniques to extract data from tables.

Super Mario Bros AI Speedrun: Created an AI to play and speedrun Super Mario Bros.

TaskHub Web Application: Built a task management web application using modern web technologies such as flask andMySQL.

Data Structures and Algorithms: Implemented various data structures and algorithms across languages.

Discrete Mathematics in Programming: Applied discrete mathematics in programming.

Personal Portfolio Website: Created a personal portfolio website.

SKILLS & EXPERTISE

Software Development:
- Programming Languages: Proficient in Java, Python, C, and HTML/CSS, with experience in JavaScript Ontologies, Flask and SQL. Skilled in designing secure, scalable, and maintainable programs.
- Software Engineering: Skilled in team-based development processes, algorithmic problem-solving, and applying logical reasoning to software challenges. Developed network-based systems using socket programming
- AI & Machine Learning: Implement AI algorithms and machine learning models.
- Cybersecurity: Familiar with cybersecurity principles, risk management, and adhering to ethical standards in information security.
- Database Management: Proficient in SQL, database design, and optimization, with experience in relational database systems and ORM techniques.
- Systems Programming: Knowledgeable in systems programming using C and understanding the intricacies of operating systems and concepts including file handling, process management and threading.
- Version Control: Experienced with Git, GitHub, and CI/CD workflows for collaborative development and deployment.

Web Development & Agile Methodologies:
- Acquired a thorough understanding of web functionality, including markup languages, CSS, Bootstrap, and client-side scripting with JavaScript, jQuery, and AJAX.
- Proficient in developing dynamic web applications using Flask and Python, following MVC architecture and object-relational modelling.
- Practiced in deploying applications and integrating REST APIs for enhanced web services.
- Gained hands-on programming experience, reinforcing knowledge of how various web technologies interconnect.
- Applied agile project methodologies for effective teamwork and project management, using GIT for version control.

IT Infrastructure & Networking:
- Technical Support: Advanced troubleshooting for hardware, software, and network-related issues across multiple operating systems and platforms.
- Systems Management: Experience with IT systems setup, configuration, mobile device management, and AV solutions.
- Network Infrastructure: Competent in installing network cabling, setting up switches and access points, and monitoring network performance.
- IT Service Management: Strong track record in IT helpdesk support, ticket management, and adherence to SLAs
- CompTIA Network+ Certified: In-depth knowledge of network protocols (TCP/IP, DNS, DHCP, VLANs, VPNs), network troubleshooting, and security principles.
- Networking Equipment: Hands-on experience with configuring switches, routers, and access points, as well as network monitoring tools like Zabbix.
- System Administration: Familiarity with Active Directory, group policies, and IT security best practices.
- Cloud & Virtualization: Exposure to cloud computing concepts, virtualization, and cloud-based infrastructure services.

Technical Proficiencies:
- Tools & Platforms: Office 365, Teams, OneDrive, Outlook, Excel, JAMF MDM, SEQTA, ICT management systems, and security solutions like SALTO.
- Development Tools: Versed in using Microsoft Forms, Power Automate, Active Directory, and network management via Zabbix.

Soft Skills:
- Communication: Effective at explaining technical concepts and documenting solutions for varied audiences. Worked in an Agile team, presenting technical solutions in weekly stand-ups.
- Collaboration: Team player capable of leading and collaborating within cross-functional teams.
- Problem-Solving: Exceptional analytical abilities to diagnose and resolve complex technical issues. Debugged and optimized a PDF extraction via graphical user application, reducing labour time by 90%.

Commitment to Professional Development:
- Willing to engage in continuous learning and upskilling to stay up to date with the latest technological advancements.