# Anita Lalwani

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## PROFILE:

Final-year Bachelor of Computer Science student at Edith Cowan University, majoring in Software Engineering. Eager to gain hands-on industry experience in software development, web development, mobile applications, or Python-based data science. Highly motivated and well-organised, balancing academic progress with personal responsibilities while maintaining a strong commitment to professional growth. Passionate about continuous learning, gaining real-world experience, and building both technical and soft skills.

## EDUCATION:

Bachelor of Computer Science (Major in Software Engineering)
Edith Cowan University, Perth WA 2023 – Present (Expected Completion: 2025)

### Relevant Units

*Software Development & Programming*

- Programming Principles
- Data Structures
- Object-oriented Programming with C++
- Foundations of Software Engineering
- Object-oriented Analysis and Design
- Applications Development
- Software Testing
- Programming Languages and Paradigms

*Web Development & Systems*

- Systems and Database Design
- Distributed Systems

*Mobile Application Development*

- Introduction to Mobile Applications Development

*AI / Data Science / Intelligent Systems*

- Intelligent Systems

*Software Architecture & Engineering*

- Software Architecture and Design
- Project Methods and Professionalism

## SKILLS SUMMARY:

### Communication

- A strong listener who takes time to understand others' needs and respond thoughtfully demonstrated while volunteering in the school canteen and working on group assignments at university.
- Able to write clear and organised technical documents and assignments, such as programming reports and system analysis documentation.
- Always working to improve spoken English skills by participating in group discussions and presentations as part of university coursework.

- Comfortable asking questions to clarify requirements and ensuring mutual understanding when collaborating with peers or teachers.

## Collaboration & Teamwork

- Worked collaboratively with group members during *Systems Analysis* and *Software Testing* units, ensuring smooth team coordination, version control with GitHub, and timely completion of project milestones.
- Volunteered at my children's school canteen, working alongside staff to assist with food service and logistics, demonstrating reliability and a cooperative attitude in a fast-paced environment.

# Technical Skills

## Software Development & Programming:

- Developed applications using Python, C, HTML, CSS, JavaScript, Go and C++ in units such as *Programming Principles*, *Object-Oriented Programming*, and *Data Structures*.
- Built a URL shortener and a Game of Life simulation (Lua, Solar2D).
- Applied principles of object-oriented programming, functional programming, and structured programming across coursework and personal projects.

## Mobile App & Web Development:

- Gained practical experience in *Mobile App Development* and *Applications Development* using Android Studio, HTML/CSS, and JavaScript.
- Completed Udemy's *Complete Web Developer Course*, building real-world websites and learning fullstack skills including PHP, MySQL, and Node.js.

## Tools, Operating Systems & Platforms:

- Proficient in Windows environment
- Familiar with Lua (Solar2D), Pytest for test automation, and Composer API for mobile screen transitions
- Comfortable using Visual Studio Code, Git/GitHub, and WordPress for development projects
- Confident with MS Word for creating reports and formal documentation
- Basic experience with MySQL through assignments and hands-on practice
- Hands-on experience with Microsoft Azure for deploying and managing cloud-based applications in university projects
- Actively building familiarity with tools and environments commonly used in web and software development
- Familiar with Agile methodologies through university group projects, including sprint planning, collaborative development, and iterative feedback

## Practices & Methodologies:

- Experienced with Agile development through university projects, used sprint planning, Trello, peer reviews, and iterative feedback.
- Applied black-box testing techniques (e.g. EQ, BVA, Weak Robust) and test automation with Python and Pytest.
- Built and evaluated machine learning models using Keras, TensorFlow, pandas, NumPy, and StandardScaler.

- Completed a job simulation involving development and coding

- Wrote a proposal for creating a dashboard

## RELEVANT EXPERIENCE:

### Deloitte Australia Technology Job Simulation on Forage - July 2025
- Completed a job simulation involving development and coding
- Wrote a proposal for creating a dashboard

### Quantium Data Analytics Job Simulation on Forage - June 2025
- Completed a job simulation focused on Data Analytics and Commercial Insights for the data science team.
- Developed expertise in data preparation and customer analytics, utilizing transaction datasets to extract valuable insights and deliver data-driven commercial recommendations.
- Extended analytical capabilities to identify benchmark stores for conducting uplift testing on trial store layouts, enabling evidence-based decision-making.
- Leveraged acquired data analytics and insights from previous tasks to create comprehensive reports for the Category Manager, facilitating informed strategic decisions and enhancing commercial applications.

### Verizon Cloud Platform Job Simulation on Forage - 2025
- Completed a job simulation involving building a hypothetical new VPN product for Verizon's Cloud Computing team.
- Used command line Python to test whether Verizon's VPN met the cloud-native traits, i.e. redundancy, resiliency and least-privilege.
- Researched approaches to achieve application security and communicated insights in a PowerPoint Presentation.

### URL Shortener Project (University Project)

Key responsibilities:
- Developed a Go-based URL shortener with BoltDB for data persistence.
- Implemented routing and server logic, along with a simple HTML interface.
- Drafted a technical report covering Go's concurrency, OOP, and exception handling features.

Skills/Competencies developed:
- Full-stack development
- Go programming language
- Technical report writing

### Student Records Database (University Project)

Key responsibilities:
- Created a normalised relational database using MySQL.
- Designed ER diagrams and wrote SQL queries for data retrieval and reporting.
- Implemented database integrity constraints and optimised queries.

Skills/Competencies developed:
- Database design and management

- SQL querying
- Data integrity and optimization

## Smart Waste Management System (University Project)

Key responsibilities:
- Collaborated on a system design project for an IoT-based waste management system.
- Created stakeholder analysis, system models (DFD, ERD), and presented a preliminary design.
- Conducted requirement gathering and analysis for system functionality.
- Worked in an Agile team environment, using iterative feedback and regular check-ins to coordinate tasks and deliverables

Skills/Competencies developed:
- Systems analysis
- Requirements gathering
- Design documentation

## Software Testing – Planner System (University Project)

Tools: Python, Pytest, EQ, BVA, Weak Robust, Agile
Key responsibilities:
- Analysed an event booking system to design black-box test cases for scheduling and vacation features.
- Developed automated test scripts using Pytest based on Equivalence Partitioning (EQ), Boundary Value Analysis (BVA), and Weak Robust methods.
- Investigated previously reported defects including leap year handling, invalid time slots, and ambiguous error messaging.
- Logged actual vs expected outputs and contributed fixes to improve test coverage and clarity.
- Coordinated with teammates in an Agile-like environment, using Microsoft teams.

Skills/Competencies developed:
- Software Testing (Black-box design, test automation)
- Python & Pytest
- Problem diagnosis in existing code
- Collaboration in group software projects

## CNN-Based Malware Detection System (University Project)

Key Responsibilities:
- Built and trained a 1D Convolutional Neural Network (CNN) using Keras/TensorFlow for binary classification of network traffic data (malware vs normal).
- Applied standardization and preprocessing on 78 network and system log features to prepare data for training.
- Tuned model architecture using Conv1D, MaxPooling1D, Dropout, and Dense layers for optimal learning.
- Evaluated model using accuracy, precision, recall, F1-score, and AUC-ROC, achieving 95% overall accuracy.
- Collaborated in a team and contributed to implementation, result interpretation, and report documentation.

Skills/Competencies Developed:
- Deep learning using Keras and TensorFlow
- Data preprocessing with pandas, NumPy, and StandardScaler
- Model evaluation and metrics interpretation
- CNN model architecture and tuning

## Game of Life Simulation App (University Project)

*Lua, Solar2D (Corona SDK), Composer API*

Key responsibilities:

- Designed and developed a mobile simulation of Conway's Game of Life using Lua and the Solar2D framework.
- Created interactive UI elements (Play, Pause, Stop, Restart, Go Back) and implemented grid-based logic for simulation.
- Utilised Composer scene management for screen transitions and lifecycle handling (menu and game screens).
- Wrote modular and reusable code for simulation control, grid updates, and scene cleanup.

Skills/Competencies developed:

- Mobile app development with Lua
- Event-driven programming & scene lifecycle management
- Simulation logic implementation
- Debugging and performance tuning in Solar2D

## EMPLOYMENT:

## Doordash Food Delivery (2022)

Position: Independent Contractor – Food Delivery Driver
Company: Doordash Australia
Duration: 6 months
Location: Perth, WA

Key Responsibilities:

- Received and completed customer food delivery orders via the Doordash mobile application.
- Planned and optimized driving routes for timely and efficient deliveries across varied suburbs.
- Ensured order accuracy, special instructions, and secure handling of customer items.
- Communicated professionally with restaurant staff and customers to resolve order queries or delays.
- Maintained records of deliveries and reported app or delivery issues through the support channel.
- Demonstrated safe driving practices and compliance with COVID-19 hygiene protocols.

## INVOLVEMENT:

## Local Primary School

*Volunteer – School Canteen Support*

- Assisted canteen staff during school hours with food prep, cleaning, and order coordination.
- Demonstrated reliability, time management, and teamwork in a fast-paced environment.
- Balanced voluntary service with full-time study and parenting responsibilities.

## INDUSTRY PARTICIPATION:

- Joined group discussions and peer learning sessions during online course communities (Udemy, Harvard CS50).

Engaged with student forums and course Q&A to enhance self-paced learning and build industry awareness.

- Attended the Edith Cowan University (ECU) Career Fair, connecting with industry professionals and learning about potential career opportunities in the field of software engineering and technology.

## EXTRACURRICULAR ACTIVITY:

- Created my personal content page on Instagram @the_anitas_edit where I share creative baking and food content.
- Developed skills in content planning, photography, basic video editing, and social media engagement. Grew and maintained an online presence while exploring digital creativity and community interaction.

## PROFESSIONAL DEVELOPMENT:

### Harvard CS50 – Introduction to Computer Science (2020)

#### Harvard University (edX)
- Covered algorithms, data structures, memory, and web programming.
- Strengthened problem-solving and critical thinking with C, Python, and JavaScript

### The Complete Web Developer Course 2.0 (2021)

#### Udemy
- Learned full-stack development: HTML, CSS, JavaScript, Node.js, PHP, MySQL
- Built interactive websites and a blog application.
- Gained experience in web hosting, domains, and SEO fundamentals.

## LEARNING AND PROFESSIONAL DEVELOPMENT:

- Completed the "Introduction to Mobile Applications Development" course at ECU, gaining handson experience in mobile app design and development using Android Studio.
- Worked on university assignments such as the URL shortener project in Go, applying backend programming, database integration, and web development skills.
- Engaged with online resources and tutorials to expand knowledge on full-stack development, including HTML/CSS, JavaScript, Node.js, and MySQL.

## PROFESSIONAL ASSOCIATIONS:

**Student Member**, Australian Computer Society (ACS)

## ADDITIONAL INFORMATION:

Location: Byford, WA
Driver's Licence: WA Full Licence
National Police Clearance: Available on request Willing
to travel to CBD.

## REFEREES:

Available on request.