

# Kudzai Emmanuel Taruwona

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## SUMMARY

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Computer science student with hands-on experience in full-stack web development and systems programming. I have a background in building AI-driven web applications and C++ inventory systems, with a strong focus on system architecture and API design. I am looking to apply my coding skills and technical problem-solving abilities to software engineering and development roles.

## EDUCATION

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### Bachelors of Computer Science

July 2024 - July 2027

Adelaide University

Adelaide, Australia

- Activities and societies: Computer Science Club Committee member, Competitive Programming Club
- Relevant Coursework: Algorithm Design and Data Structures, Object-Oriented Programming, Databases and Ethical Data, Computer Systems, Data Mining and Prediction, Introduction to Software Engineering, Mathematics for Data Science

## EXPERIENCE

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### Technology Risk Analyst

January 2024 - June 2024

Bakertilly Central Africa

Harare, Zimbabwe

- Monitored emerging cyber threats and evolving security protocols to proactively safeguard systems against new attack vectors.
- Deployed, integrated, and configured new security solutions in accordance with Cybersecurity Frameworks and standard operating procedures.
- Drove the selection of security solutions to manage enterprise security for Baker Tilly clients.
- Executed vulnerability assessments and web security penetration tests to validate security functionality and identify opportunities to maintain system integrity.
- Composed detailed reports based on vulnerability assessments and penetration tests, providing actionable solutions to mitigate identified risks.
- Managed multiple competing priorities in a fast-paced environment while consistently delivering high-quality work on schedule.

### Open Source Officer

March 2026 - Present

Adelaide University Computer Science Club

Adelaide, Australia

- Organized hands-on workshops that enabled students to make their first open source contributions
- Built a GitHub repository of coding challenges to help beginners practice programming
- Resolved merge conflicts and debugged code issues alongside students during lab sessions
- Selected accessible issues from active projects to help students start contributing to open source
- Updated club projects with new features and bug fixes to keep codebases current
- Coordinated the planning and development of new software projects for the club
- Coordinated internal club events and joint initiatives with other organizations.

## PROJECTS

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### Reslift.io | Next.js, Supabase, Stripe, Vercel, Gemini API

[Link](#)

- Architected an AI-driven resume analysis system using Claude Sonnet, reducing customization time by 90% and providing automated ATS scoring.
- Integrated the Stripe payment gateway for multi-currency transactions, managing Authentication and RESTful APIs to process a one-time purchase model.
- Orchestrated production deployment on Vercel, establishing an automated CI/CD pipeline and real-time database synchronization.
- Automated job description analysis via the Gemini API, achieving an 89% average ATS match score through React component development and State Management.

- Developed high-performance React components using Tailwind CSS, securing a 95+ Lighthouse score while ensuring a mobile-first user experience.
- Engineered a Master Bullet Bank architecture that eliminated manual copy-pasting by enabling dynamic experience selection for every application.
- Launched an AI resume SaaS from initial concept within 60 days, managing deployment via CI/CD Pipelines on Vercel.
- Owned the Software Development Life Cycle, leading research, design, engineering, and support to build the platform from scratch.
- Developed a mobile-friendly user interface using responsive design principles and deployed to Cloud Infrastructure via Vercel with Continuous Integration.

## Kitchen Management System

- Engineered a 1,300+ line food inventory system and ensured high code reliability through comprehensive unit testing with the Google Test framework.
- Optimized data management using STL containers to achieve high-speed item lookups across diverse storage locations.
- Automated expiration tracking and temperature validation to power an intelligent, data-driven shopping list generation engine.
- Developed CSV export functionality to integrate meal planning and grocery shopping workflows.
- Architected an object-oriented class hierarchy to manage complex food categorization and storage business rules.

## Multi-threaded CSV Data Processor

- Architected a C++ application processing 22,000+ records/second via 4-thread worker pools, achieving a 2.8x speedup over the single-threaded baseline.
- Reduced average processing time from 3.2ms to 1.1ms per record by leveraging std::thread parallelization and targeted memory optimizations.
- Designed performance benchmarking with millisecond-precision timing and statistical analysis across CSV datasets of 25K–100K records.

## SKILLS

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**Programming Languages:** C, C++, JavaScript/TypeScript, Python

**Operating systems:** Linux, Windows, MacOS

**Web Development:** Next.js, Flask, HTML, CSS, Tailwind CSS, Node.js, Express.js

**Databases:** SQL, SQLite, PostgreSQL, Database Design

**Tools and Technologies:** Git, Github, GitLab, Google Test, Unit Testing

**Development Practices:** Object Oriented Programming, Test Driven Development, Code Reviews, Agile Methodologies

## OTHER

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### Languages

- English (Fluent), Shona (Fluent)