

# Alexander Robertson

Adelaide, SA | Australian Citizen

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## PROFESSIONAL SUMMARY

Driven and personable graduate from the University of Adelaide (6.35/7 GPA) transitioning from a career in sales and hospitality to technology, combining technical expertise with proven collaborative skills. Experienced in back-end micro-service development in Go at Deloitte as well as legacy system modernisation using Java at the Australian Bureau of Statistics, including DevOps integration and implementation with rigorous testing frameworks. A laser-focused team player who is passionate about delivering scalable, efficient solutions while thriving in dynamic and agile environments.

## EDUCATION

### University of Adelaide - Bachelor of Computer Science

6.35 / 7 GPA

2023 – 2025

Majoring in Distributed Systems & Networking

Developed and delivered diverse technical projects including a full-stack web application employing Vue.js and Node.js that received a perfect grade (100/100) for design and functionality, and a Java-based RESTful aggregation server demonstrating 100% data consistency during rigorous fault tolerance testing simulating forced crashes.

### University of New England - Diploma of Information Technology

6.88 / 7 GPA

2021 - 2022

Mastered foundational programming concepts through hands-on projects laying the groundwork for scalable and maintainable code in professional environments. Delivered a faithful recreation of the Atari-2600 classic Missile Command using Processing that emphasises real-time event handling and graphical rendering. Developed a Java-based retail management system with Swing, applying object-oriented principle to simulate inventory tracking and transactions.

## WORK EXPERIENCE

### Intern | Deloitte

Jan 2025 to Feb 2025

Engineered a Go micro-service leveraging generative AI to parse unstructured documents and create constraint-rich database schemas, reducing manual schema design time by ~40%. Implemented gRPC for inter-service communication, containerised using Docker, and orchestrated with Kubernetes for scalable load balancing across distributed systems. Achieved 96% validation accuracy for parsed entity relationships and constraints during testing. Integrated into Deloitte's Optimal Reality platform to streamline schema design for enterprise clients.

### Development and Programming Officer | Australian Bureau of Statistics

Nov 2023 to Jul 2024

Spearheaded the modernisation of legacy systems by re-engineering OpenText Team Developer applications into scalable Java solutions utilising Swing, Spring-boot, and JDBC, achieving enterprise-grade performance and maintainability. The initial application designed to replace a mission-critical legacy module exceeded stakeholder expectations, leading to project ownership and the development of 3 additional applications that streamlined data processing workflows. Leveraged DevOps practices to automate CI/CD pipelines with Jenkins and Maven, ensuring testing compliance and reducing deployment errors within my team by 30%. Expanded expertise in database integration, utilising SAS for statistical analysis and PL/SQL to optimise legacy data migration. Collaborated with cross-functional teams to align applications with ABS data governance standards.

## PREVIOUS EXPERIENCE

### Car Sales Professional | Ferntree Gully Hyundai & Kia

2018 to 2019

Ranked in top 10% of regional sales, leveraging data-driven client needs analysis to close an average of 30 deals per month.

### General Manager | Big Dog Diner

2017 to 2018

Led a 30-person team, optimising workflows and customer experience to improve google ratings from 2.3 stars to 4.1 stars.

### Shift Supervisor | McDonald's Australia

2013 to 2017

Trained 20+ staff members in operational compliance and conflict resolution, ensuring seamless service during peak hours.

## KEY SKILLS

- Programming: Go (Golang), Java, JavaScript, SQL (PL/SQL), SAS, Python, C++, C#, C
- Frameworks/Libraries: Spring Framework, Swing, Vue.js, Node.js, gRPC
- Databases/ORM: JDBC, PostgreSQL, MySQL
- DevOps/Cloud: Docker, Kubernetes, Jenkins, Maven, Git, CI/CD Pipelines
- Practices: Agile/Scrum, Test-Driven Development (TDD), Legacy System Modernisation, RESTful APIs

## SOFT SKILLS

- Client Needs Analysis, Cross-Functional Collaboration, Process Optimisation, Technical Mentorship

## EXTRA-CURRICULARS

- Adelaide University eSports Club – Treasurer
- University of Adelaide Locked Shields Partner Run 2025 – Windows Team

## REFERENCES

Oliver Waugh | Senior Engineer - Deloitte

Grant Muscat | Service Manager - ABS