

Personal Statement

I am a driven and flexible software engineer supplemented with knowledge of cloud systems, cybersecurity and AI. I have a track record of creating and preserving high-performance software system, putting strong security policies into effect, and streamlining systems for effectiveness. Passionate about using industry best practices and new technologies to improve system dependability and performance, I am always learning new things to update myself and helping to support effective software development projects.

Programming Languages, Skills and Technologies

- Programming Languages: C++, C, Java, Python, Go
- Web Development: HTML, CSS
- Mobile Development: Android
- Operating Systems: Linux, Windows
- Cloud Platforms: AWS, Azure, GCP, Oracle Cloud, DigitalOcean
- DevOps and CI/CD Tools: Jenkins, Terraform, Docker
- Monitoring and Logging Tools: Splunk, Graphana
- Project Management and Collaboration Tools: Jira, Azure DevOps, IBM ALM, Confluence
- Database Systems: Oracle SQL, PostgreSQL, SQLite
- Data Visualisation: Apache Superset, AWS Quicksight, Power BI, SharePoint
- Office Software: MS Word; MS Excel; MS Powerpoint

Employment History

Software Engineer (Part-time)	FIRCY, Lot Fourteen, Adelaide	July 2023 – Present
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- Designed and deployed over 100 decoys, effectively replicating actual infrastructure to lure attackers and generated threat intelligence on major public cloud platforms (AWS, Azure, GCP, Digital Ocean, Oracle Cloud).
- Using FastAPI, led the development, deployment, and management of a Python web server supplying a threat intelligence API, thereby improving response times by 60%.
- Facilitated to migrate a 500GB PostgreSQL database from AWS Cloud to on-site architecture, therefore boosting data access speed by 25% and lowering costs by 40%.

Teaching Assistant	The University of Adelaide	February 2024 – Present
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- Courses tutored: Object Oriented Programming, Puzzle Based Learning.
- Conducted weekly workshops and practical sessions for over 300 computer science undergraduates.
- Gave each student tailored assistance that resulted in a 25% increase in rates of assignment submission and overall scores.

Engineer I, SW	Harman International Industries	February 2022 – December 2022
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- Designed and maintained Java and C++ software based automotive software solutions to attain 99.9% dependability and industry standard compliance.
- Improved software performance by 20% through optimising code and implementing robust security measures.
- Collaborated with cross-functional teams of 15+ members, including hardware engineers, software testers, and project managers, to ensure successful development and delivery of 5 major products within strict timelines, meeting 100% of project milestones.

Software Development Engineer	Amadeus IT	January 2020 – February 2022
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- Created an abstraction layer to separate business logic from data storage specifics, reducing maintenance efforts by 30% and increasing test coverage by 40%.

- Implemented upgrades to middleware layers and performed code refactoring, transitioning from C++11 to C++17, resulting in a 25% improvement in system performance and leveraging new language features for enhanced code efficiency.
- Designed and implemented a cryptic service for the Amadeus terminal, enabling PNR/Message Queues admin to view past queue history, improving administrative efficiency by 50%.

Education Background

Adelaide, SA **The University of Adelaide** **Feb 2023 – Nov 2024**

Master of Computer Science. GPA: 6.7 out of 7

- **Graduate Coursework:** Applied Natural Language Processing; Mining Big Data; Specialised Programming; Applied Machine Learning; Distributed Systems; Secure Software Engineering; Using Machine Learning Tools, Communication & Critical Thinking.

Bengaluru, India **Ramaiah Institute of Technology** **Aug 2016 – July 2020**

Bachelor of Engineering in Electronics & Communication. GPA: 9.08 out of 10

- **Undergraduate Coursework:** Computing Fundamentals; Digital Electronics; Databases; Algorithms; Data Structures; Microprocessors; Microcontrollers; Machine Learning; Cryptography; Internet of Things; Wireless & Data Communication.

Technical Development

Industry Memberships

- Australian Computer Society - ACS Student member
- Australian Information Security Association - AISA Student member
- Institute of Electrical and Electronics Engineers - IEEE past member

Industry Certifications

- AWS Certified Developer - Associate
- AWS Certified Solutions Architect - Associate
- AWS Certified Cloud Practitioner
- Microsoft Certified Azure Fundamentals
- Microsoft Certified Azure Data Fundamentals
- Microsoft Certified Azure AI Fundamentals

Additional Experiences and Awards

- **The University of Adelaide:** Recipient of the Adelaide Graduate Award, 2024
- **Royal Adelaide Show:** Yellow Brick Road volunteer, 2023
- **The University of Adelaide:** Community, Adelaide University Union crew volunteer, 2023-2024
- **Harman:** Awarded recognition for rapid delivery and ramp-up during Q2 for the year 2022.
- **Amadeus:** Recipient of the high-flyer award for Q1 and Q3 for the year 2021.

Recommendations and References

Provided upon request