

Personal Statement

I am a driven and flexible software engineer supplemented with knowledge of cloud systems and cybersecurity and AI. I have a history of creating and preserving high-performance software programs, 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

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Name: Vinayak Udaykumar Shastri
Student ID: 1881405
Issue Date: 6 August 2024

Program Summary	Code	Status	GPA
Master of Computer Science	MCOMS	In progress	6.625

Enrolment Summary	Units	Mark	Grade
2024 MCOMS COMP SCI 7100A Research Project Master Computer Science – Part A	0.00	CN	Continuing
MCOMS COMP SCI 7100B Research Project Master Computer Science – Part B	15.00		
2023 MCOMS COMP SCI 7417 Applied Natural Language Processing	3.00	78	Distinction
MCOMS ENG 7057 Communication & Critical Thinking	3.00	77	Distinction
MCOMS COMP SCI 7306 Mining Big Data	3.00	95	High Distinction
MCOMS COMP SCI 7007 Specialised Programming	3.00	90	High Distinction
MCOMS COMP SCI 7416 Applied Machine Learning	3.00	85	High Distinction
MCOMS COMP SCI 7076 Distributed Systems	3.00	83	Distinction
MCOMS ENG 7111 Internship	6.00	NGP	Non-Graded Pass
MCOMS COMP SCI 7412 Secure Software Engineering	3.00	87	High Distinction
MCOMS COMP SCI 7317 Using Machine Learning Tools PG	3.00	97	High Distinction

Credit Granted			

From Ramaiah Institute of Technology, Bengaluru, India toward			
2023 MCOMS COMP SCI 7092	Mobile and Wireless Systems	3.00	Transfer Credit

Prizes
2024 MCOMS Adelaide Graduate Award-for employability skills development through extracurricular activities

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