

Andre Pesce

Software Engineer



Experienced software engineer with 4+ years in defence and R&D sectors, specialising in full-stack development, DevOps, SysAdmin and complex system integrations

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📍 Adelaide, Australia

WORK HISTORY

Lockheed Martin Australia

Software Engineer

08/2023 - Present

- Responsible for software-hardware integration, software development and system maintenance across production & development environments for the Jindalee Operational Radar Network (JORN) Phase 8 system
- Python application & algorithm development, Angular front-end development, Linux system administration, data analysis, database management, API development, unit testing, documentation, maintaining codebase, metrics observability, bash scripting, CI/CD automation, and complex system troubleshooting
- Routinely orchestrated the release and deployment architecture of a suite of complex applications across multiple networks, ensuring seamless integration, minimal downtime, and high availability across all environments
- Assisted the team in conducting thorough code reviews, task planning and providing mentorship to junior engineers, ensuring adherence to best practices, improving code quality, and fostering their technical growth

Software Engineer Associate

08/2021 - 08/2023

- DevOps responsibilities on JP9711, provisioning SOEs, Ansible scripting, GitLab Pipelines, and Kubernetes deployments
- Pivotal role in key deliverables on JORN High Powered Amplifier (HPA) Phase 2. Independently designed and developed dozens of Python scripts to operate various HF hardware in a lab environment, generating CSV data and graph plots from measurements and recordings based on specific requirements for post-analysis/requirement Verification & Validation
- Contributed in an agile team environment on the Combat Systems Integrations' Future Submarine Program by designing and developing translation services in Golang. Applied test-driven development to assist in writing clean, bug-free code

SKILLS

Tools / Environments

VSCode, Linux, RedHat/CentOS, GitLab/GitHub, GitLab Pipelines, Ansible, Grafana, Prometheus, Nginx, Kubernetes, Docker, Jira, Confluence, PyLint, Mypy, Jupyter Notebook, VMware vSphere, GoTest, Postman, Draw.io, Figma, Microsoft 365

Programming Languages

Python, Bash, JavaScript/TypeScript, HTML, CSS, SQL, Golang, Java, C++, C#, VB.NET

Database Management

PostgreSQL, SQLite, Microsoft SQL Server, Oracle SQL Developer

Frameworks / Libraries

Angular, FastAPI, Django, Matplotlib, Cesium, React, Bootstrap

Soft Skills

Communication, Mentoring and Teaching, Problem Solving, Adaptability, Teamwork, Self-Learning, Time Management

EDUCATION

Bachelor of Information Technology (Software Development)

University of South Australia

02/2018 - 11/2020

Diploma in Music (Sound Engineering)

Adelaide University

03/2014 - 11/2014

PROJECTS

Engineering Data Management System (EDMS)

08/2020 - 11/2020

Designed and developed a Django/PostgreSQL web application for researchers under Uni SA's Future Industries Institute (FII) to manage and analyse thin film coating data. Features included tests uploads, table filtering and data exports. Delivered full documentation including System Design Document, user manual and source code; project graded High Distinction.

Demo video can be seen at www.andrepesce.com

References available upon request