

Ryan Greenup

SOFTWARE ENGINEER · INFRASTRUCTURE ENGINEER

Melbourne

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Professional Summary

Full-stack software and data engineer who ships production systems: ETL pipelines, analytics dashboards, Kubernetes clusters via GitOps, LLM-integrated applications, and multi-brand client frontends. At Gforce, cut infrastructure costs by \$2,000/month and eliminated 20+ hours of manual weekly reporting. At CCAFP, built and deployed a production LLM superannuation application. At We Are Impress, owns production infrastructure and delivers frontends for enterprise clients including SunRice and National Intermodal.

Technical Skills

Languages	Python, SQL, TypeScript/JSEX, Rust, Go, R
Frontend	Solid.js, Vue, Nuxt, Tailwind CSS
Databases	PostgreSQL, DynamoDB, DuckDB, ClickHouse, SQL Server
Infrastructure & DevOps	Kubernetes, Flux (GitOps), OpenTofu, Docker, Podman/Quadlets, Traefik, Caddy, Wireguard, AWS, DigitalOcean, RHEL/Linux, SOPS, Authelia
Data Engineering	ETL Pipelines, CDC, Stream Processing, S3, Web Scraping, pgBouncer
ML / AI	CNNs, Image Classification, Model Deployment, AWS Bedrock

Professional Experience

Software Engineer Melbourne

WE ARE IMPRESS Feb 2026 - Present

- Own production infrastructure across AWS EC2 (RHEL) and DigitalOcean Kubernetes, with GitOps via Flux, Traefik ingress with Let's Encrypt, Authelia SSO, SOPS-managed secrets, and OpenTofu for provisioning
- Ship production frontends for enterprise clients including National Intermodal Corporation, the SunRice brand family (five regional sites across AU, US, and NZ), and Stone and Chalk
- Build internal diagnostics tooling combining the TypeScript compiler API, oxlint, and a codegraph index with PageRank to surface the most actionable error first
- Develop a JSX-to-IR transformer package used across the agency component pipeline

Contract Software Engineer Melbourne

CCAFP 2025 - 2026

- Design and deploy an LLM-automated superannuation application: SPA in SolidJS and Tailwind CSS, backed by PostgreSQL, serving financial planning workflows end to end
- Integrate AWS Bedrock as the LLM layer, automating superannuation assessment and reducing manual case handling
- Deploy to Kubernetes with Flux GitOps, managing manifests, secrets, and rollouts
- Mentor a junior developer from first commit to deployment, reviewing code and transferring full-stack knowledge throughout

Lead Developer, Full Stack Data Engineer Melbourne

GFORCE CATEGORY SOLUTIONS Nov 2024 - Feb 2026

- Imported 10 years of heterogeneous historical client data with custom scripts, tests, and validation logic
- Built and deployed a CEO-facing analytics dashboard with authentication, built on the ETL pipeline
- Migrated database to PostgreSQL/ClickHouse, cutting infrastructure costs by \$2,000/month
- Negotiated DynamoDB-PostgreSQL integration costs down 50%
- Deployed a CNN for automated photo quality control (99% accuracy, 10k photos/day) and a fraud detection pipeline for duplicate field-representative uploads
- Implemented CDC pipelines for ClickHouse and DuckDB via S3 for real-time data synchronisation
- Automated weekly client reporting, saving 20+ person-hours per week
- Overhauled container deployment with rootless Podman Quadlets, Caddy reverse proxy, and Wireguard VPN

Data Science Instructor (Contract)

COMMONWEALTH BANK

Sydney

Aug - Nov 2024

- Trained 100+ data science staff in Python, Pandas, and fraud detection techniques across remote and in-person cohorts

Data Scientist (Contract)

WORKFORCE ANALYTICS

Sydney

Jun - Aug 2024

- Cleaned and analysed payroll data; delivered compliance findings to clients

ML Researcher

INTERNATIONAL CENTRE FOR NEUROMORPHIC SYSTEMS (ICNS)

Sydney

2023 - 2024

- Designed a custom neural network architecture using bit-shifting operations for reduced memory use
- Analysed astronomy images from event-driven cameras to support neuromorphic computing research

Subject Coordinator

WESTERN SYDNEY UNIVERSITY

Sydney

2022 - 2024

- Designed and delivered a 3rd-year Time Series Analysis curriculum
- Consulted with stakeholders on deployment and scaling of a CentOS Slurm workload manager for HPC

Education

BSc Mathematics, BSc Data Science, BSc Research (Machine Learning) Western Sydney University

2014 - 2020