

PROFILE

Senior Platform/Systems Engineer specialising in GenAI platforms and cloud-native architecture. Designs and scales AWS-based containerised environments, Infrastructure-as-Code frameworks and high-velocity CI/CD pipelines, extending them with production-grade Generative AI systems.

Led the deployment of autonomous validation agents, RAG-enabled classifiers and multi-LLM orchestration platforms using OpenAI, Claude, Gemini and DeepSeek, delivering measurable reductions in manual processing and data errors. Bridges modern platform engineering with emerging AI capabilities to automate workflows and deliver scalable, business-aligned solutions.

CORE SKILLS & COMPETENCIES

Cloud & Infrastructure

- AWS: EC2, ECS, EKS, Lambda, Step Functions, S3, RDS, VPC/VPC Peering, CloudWatch, GuardDuty, Security Hub, IAM, Route 53, ELB/ALB, Auto Scaling, SNS/SQS, API Gateway, Secrets Manager
- GCP: Compute Engine, Cloud Storage, Cloud SQL, Cloud Functions, BigQuery, Cloud Run, GKE, Cloud Monitoring
- Azure: Familiarity with Azure DevOps, Azure AD, core compute and storage services
- Containers & Orchestration: Docker, Kubernetes (EKS/GKE), container registries (ECR/GCR), Helm
- IaC: Terraform, CloudFormation, immutable infrastructure patterns

AI & GenAI Platforms

- Generative AI Integration: OpenAI, Anthropic, Google Gemini, DeepSeek, Ollama (local LLM deployment)
- AI Applications: RAG (Retrieval-Augmented Generation), autonomous AI agents, data validation and enrichment workflows
Orchestration: LangChain (multi-agent systems, chains, tool integration), MCP (Model Context Protocol), A2A (Agent-to-Agent)
- Vector Databases: pgvector, ChromaDB

DevOps & Security

- CI/CD: GitHub Actions, Git version control, DevSecOps practices
- Security Protocols: OAuth, SAML, OpenID Connect, IAM policies, secrets management
- Observability: CloudWatch metrics/alarms, SLO/SLI definition, performance monitoring, alerting strategies
- Data Pipelines & Integration: Event-driven architectures, ETL/ELT workflows, data ingestion and transformation, streaming and batch processing, orchestration with Step Functions and SQS/SNS

Development & Data

- Languages: Python, JavaScript, TypeScript, Node.js, Shell scripting, C#
- Databases: PostgreSQL, MSSQL, MySQL, MongoDB, Firebase
- Networking: TCP/IP, VLANs, VPN, firewall configuration, Cisco (CCNP certified)
- OS: Linux (LPIC certified) and Windows server administration

CERTIFICATIONS

- AWS Certified Cloud Practitioner (2022)
- Cisco Certified Network Professional (CCNP) R&S (2016)
- ISO 27001:2005 ISMS Lead Auditor - TÜV NORD Asia Pacific
- Linux Professional Institute Certification (LPIC) 1 & 2

PROFESSIONAL EXPERIENCE

Senior Platform/Systems Engineer | GenAI Platforms
G1 Racesoft Pty Ltd | January 2020 - Present

AI Platform & GenAI Productionisation

- Race Data Validator AI Agent: Deployed autonomous AI agent using Ollama for local model testing and OpenAI/Claude for production on Kubernetes infrastructure with modular prompts, JSON schema validation, and automated anomaly detection. Implemented RAG with pgvector/ChromaDB embeddings and LangChain orchestration and MCP integration for context-aware validation, reducing data errors by 70%
- Stakes Level Classifier: Built multi-layer AI classifier using DeepSeek and OpenAI with confidence scoring and fallback logic. Leveraged LangChain chains with RAG for historical pattern retrieval, achieving 90% classification accuracy
- Horse Checker v2: Designed modular AI enrichment system using LangChain Orchestrator Agent with A2A patterns coordinating Claude and OpenAI services, automated database updates, and full audit logging. Improved data completeness by 70%
- Feeder Bot: Created Slack-integrated bot using Gemini and Claude for automated daily validation reports, reducing manual reporting time by 80%

Infrastructure & Cloud Architecture

- Architected and maintained scalable AWS infrastructure leveraging EC2, RDS (MySQL/PostgreSQL), S3, Lambda, VPC peering, and EKS for containerised workloads
- Migrated legacy on-premises systems to AWS, achieving 30% cost reduction and improved performance
- Implemented Infrastructure-as-Code using Terraform and CloudFormation for automated, repeatable deployments
- Led architectural design and technical decision-making for AI platform components, evaluating LLM providers, orchestration frameworks, and data infrastructure patterns

DevOps & Platform Management

- Designed CI/CD pipelines with GitHub Actions, reducing deployment time by 50%
- Containerised microservices using Docker and Kubernetes for scalable, fault-tolerant deployments
- Implemented comprehensive observability using CloudWatch metrics, alarms, and SLO-based alerting for high availability
- Deployed AWS security stack including GuardDuty for threat detection and Security Hub for centralised compliance monitoring across multiple accounts
- Maintained documentation and disaster recovery processes for platform reliability
- Designed event-driven data pipelines using AWS Lambda, Step Functions, S3, and SQS for automated ingestion, transformation, and validation of racing data across multiple sources
- Oversaw IT infrastructure supporting flagship services: G1Goldmine.com and StallionMatch.com

Research Assistant

Monash University | July 2018 - January 2020

- Led iOS app development for health research projects using Flutter, Swift, Python, and cloud services (AWS, GCP)
- Implemented CI/CD pipelines and version control via GitHub Actions

Teaching Associate

Monash University | February 2017 - January 2020

- Taught software engineering, mobile development (JavaScript, HTML, CSS), API development, and Git workflows
- Instructed on business intelligence, data warehousing, and system design patterns

System and Network Engineer

Platin Co. | December 2015 - February 2017

- Monitored network performance using IP-SLA, NetFlow, and SNMP; implemented routing policies with Cisco equipment (VPN, VRF, MPLS)

Network Engineer / Senior Network Administrator

Rasa Co. / Porsoo Ltd. | February 2003 - January 2014

- Designed and maintained enterprise network infrastructure with IPSec/VPN, VLANs, ACLs, and advanced routing (OSPF, EIGRP)

- Managed Windows/Linux servers, Active Directory, DNS, DHCP, and security policies

EDUCATION

- Master of Business Administration - Holmes Institute (2018-2019)
- Master of Information Technology - Monash University (2014-2015)
- Master of Business Information Systems - Monash University (2014-2015)
- Bachelor of Computer Software - Azad University (2005-2008)

KEY ACHIEVEMENTS

- Pioneered Generative AI productionisation at G1 Racesoft, deploying multiple AI agents that reduced manual validation time by 80%
- Successfully migrated enterprise infrastructure to AWS, improving scalability and reducing operational costs by 30%
- Mentored 10+ junior engineers and led technical direction for AI platform initiatives, improving team productivity and technical capabilities
- Built and maintained Kubernetes-based platform infrastructure supporting production AI workloads

REFERENCES

Available upon request