

Tristan Davey

Software Engineering Leader | Experienced Full Stack Software Engineer

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Summary

- Leadership of multiple agile teams of successful engineers delivering commercial software and products.
- 14 years experience in full-stack development in a multiple languages, frontend frameworks and embedded platforms.
- Practical infrastructure and developer operations knowledge.
- Previous industry experience in compliance-heavy industries, SAAS and hardware startups.
- Experience in scaling startups and software engineering teams from 3 people to 100+.

Education

James Cook University

Bachelor of IT with Honours
2011 | Townsville, Australia

Skills

Leadership

Agile development processes •
Mentoring • Team management •
Stakeholder engagement •
Cross-functional collaboration •
Performance management

Programming

Golang • Typescript/Javascript • C
• C++ • Ruby • Python • SQL •
HTML

Frameworks

React • Ember • Rails • Hapi

Technologies

Amazon Web Services • Google
Cloud Services • Docker •
PostgreSQL • Couchbase •
DynamoDB • Apache Kafka •
MQTT • Redis • Memcached

AI/ML

LLMs (ChatGPT, Claude, etc) •
Github Copilot • Cursor •
Rekognition • OpenCV

Tooling

Amazon Web Services • Google
Cloud Services • Terraform • CDK

Associations

- Australian Computer Society
- Australian Institute of Company Directors
- Unicode Consortium

Experience

Ranlytics Pty Ltd | Head of Software Engineering

May 2019 - January 2025

- Developed and validated product concepts with company leadership and customers.
- Architected software and infrastructure for terabyte scale data ingestion and querying, a near-real time data visualisation and alerting platform, and several unique RF monitoring solutions.
- Project managed and developed software for embedded RF monitoring devices, backend data processing, internal and external APIs, and frontend user interfaces.
- Collaborated with electrical engineers, RF engineers, UX consultants, and industrial designers to design, build and validate new products, and refine the manufacturing and quality control of existing products.
- Led a series of process changes including CI automation, code and infrastructure instrumentation and team cultural changes reducing recurrent service interruptions of core cloud and data products.
- Created company and team policies, processes and audits to ensure ongoing ISO 9001, ISO 27001, SOC 2, FCC compliance.
- Recruited and led several teams of software engineers handling employee welfare and counselling, professional development, performance management and team organisation and structure.

SafetyCulture Pty Ltd | Lead Software Engineer

June 2012 – February 2019

- Architected, developed, tested and launched web services and web applications for workplace auditing and safety including full-stack development in multiple languages.
- Built developer operations tooling, including continuous integration and deployment automation for Amazon EC2, Docker and Amazon ECS deployment in a microservice environment.
- Implemented and automated unit, API and frontend testing; dependency vulnerability management; test coverage monitoring; linting and other quality and security measures.
- Managed, supervised and mentored of multiple teams of software engineers, quality assurance engineers and product designers using Agile methodologies.
- Developed and coordinated of work-experience programmes, an internship programme for university students, and Townsville employer brand development and community outreach.

Mojito Solutions | Web Developer

June 2011 – June 2012

Volunteer Roles

Smart Precinct North Queensland | Company Director

December 2019 – Ongoing

DevNQ - NQ Software Development Community | Chairperson

June 2016 – Ongoing