Tom Dane

Phone: +61 419 635 377
Website: https://tomdane.com
Email: tjdane@gmail.com

PROFESSIONAL PROFILE

Backend Software Engineer since 2014. Tech Lead of multiple teams that delivered millions in business value. Looking to solve problems at scale and continue growing as a technical leader.

EXPERIENCE

Tesla (Energy)
Sydney, Dec 2022 - Dec 2023

Staff Software Engineer

https://www.tesla.com/

Tech Lead responsible for delivering organisational goals, setting technical direction, and system architecture.

Projects

- Battery orders: Led the timely delivery of a $600m project while coordinating across several departments
- Solar permitting: Guided a team to deliver a year-long project in 3 months
- Modernization: Drove a 25% increase in velocity for a department of 200 people by paying down tech-debt

Leadership

- Coaching: Mentorship of 3 teams, with 20 engineers, across 50 microservices
- Training: Organized brown-bag lectures on microservices, design patterns, and NoSQL
- Organizational impact: Onboarded a 100-person department to a new process that reduced database release times by 90%

Technology

- Jenkins, Docker, MySQL, MongoDB, C#, .NET, RabbitMQ, Kubernetes

Tesla (Automotive)
San Francisco, Mar 2019 - Dec 2022

Senior Software Engineer

Owned the services that matched customers to vehicles.

Projects

- Vehicle API: Optimized logic for vehicle routing to save the company $1.1m per quarter
- Scaling: Horizontally distributed our vehicle matching system to resolve customer-facing slowness
- Modernization: Migrated legacy .NET framework services to .NET Core

Leadership

- Coaching: Ran workshops to train the organization in automated testing and TDD
- Hiring consistency: Reduced bias by creating a rubric for technical phone screens

Technology

- Docker, SQL Server, C#, .NET

Compare The Market (Insurance)
London, Nov 2016 - Aug 2018

Software Engineer

https://www.comparethemarket.com

Built the Content Management System used by our marketing team.

Project

- Frontend performance: Decreased page-load times by 62% for SEO by delivering HTTP caching strategy
- Backend performance: Implemented application caching for a 10x boost to our max requests per second threshold
- Legacy migration: Rewrite of on-prem monolith to AWS microservices
- Continuous delivery: Built our CI pipeline with checks for code quality, test coverage, security, and site speed

Leadership

- Community engagement: Gave a conference talk on HTTP caching and wrote a blog post on monitoring-driven development

- Growth: Organised a functional programming guild to study Haskell
- Training: Held internal talks on functional methods in C# and JavaScript and AWS concepts

Technology

- TeamCity, C#, .NET, AWS, MongoDB, Node.js

Ansarada (FinTech)
Software Developer

Sydney, Jul 2014 - Nov 2016

https://www.ansarada.com/rooms

Delivered features for our technical support department.

Projects

- Customer value: Shipped improvements using microservices and Domain Driven Design
- Productivity: Automated manual tasks for our tech-support team using C# and SQL
- Devops: Ownership of production deployments, monitoring, alerting, and performance

Leadership

- Mentorship: Onboarded two graduate engineers to new team

Technology

- SQL Server, .NET, C#, Bamboo CI, AWS

EDUCATION

General Assembly - Web Development Immersive

2014 - 2014

Three month course in JavaScript, Ruby, SQL, Git and TDD

The Australian National University - Philosophy Honours

2010 - 2011

Thesis: Relationship between internet architecture and online governance

TAFE - Certificate IV in Information Technology

2008 - 2009

One year course in HTML, CSS, Javascript

University of Sydney - Bachelor of Arts

2004 - 2007

Philosophy Major