

Tom Dane

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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)

Sydney, Jul 2014 - Nov 2016

Software Developer

<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