



STEVEN SHAW

Seasoned Software Engineer

Java · Scala · Kotlin · Haskell · Rust · Go · TypeScript · JavaScript · GCP · AWS

I'm a hands-on software engineer dedicated to delivering reliable, high-quality software through modern development practices and automation. With extensive expertise in backend development and proven full-stack engineering, I specialise in "shifting left" by implementing automated testing, infrastructure as code, observability, and robust CI/CD pipelines to identify and resolve issues early in the development lifecycle.

I apply functional programming principles to design systems that minimise errors and ensure maintainability, enabling teams to deploy with confidence. My focus on quality, automation, and sustainable engineering practices helps teams reduce production issues, improve delivery speed, and create a more enjoyable and productive work environment.

- Cloud, microservices, containerisation, serverless, APIs, messaging.
- CI/CD: GitHub, CircleCI, GitLab, Bitbucket, Jenkins.
- Infrastructure as code: Terraform, Pulumi, Helm, Nix.
- Application Performance Monitoring: Datadog, New Relic.
- Trusted mentor for technical advice and personal support.

Professional Experience

Domains

Startups, Finance, Travel,
Telecommunications,
Government

Cloud Platforms

Google Cloud

Building, deploying, and
operating applications on
Kubernetes with GKE and
Compute Engine

Amazon Web Services

Event-driven architectures
with microservices built on
Lambda, ECS, SQS, SNS,
RDS, Postgres, and
DynamoDB

Tech Stacks

Backend/Data/Messaging

Postgres, MySQL, Redis,
RabbitMQ, DynamoDB,
Oracle RDBMS, Sybase, SQL
Server

Senior Software Engineer

TLC SRC · 2003 – Present

Working with a variety of clients including Tweag, Betterteam, FlightCentre, Suncorp, TNS, Eiger Systems (now Experian), JP Morgan Chase, T-Mobile UK, Optus, and Transcore. Working across the software development lifecycle, from coding and testing, to deployment and site reliability. Using skills including Java, Scala, Haskell, open-source, functional programming, DevOps, Cloud, Kubernetes, REST APIs, TypeScript, Go, C#, .NET, Python, Terraform, and Nix.

Principal Software Engineer

Ephox (now Tiny) · 2013 – 2014 · tiny.cloud

Building rich-text editors for the web using skills including Java, Scala, JavaScript, TypeScript, functional programming, microservices, REST APIs, DevOps, and Postgres.

Senior Technical Software Developer

ADC (now CSG International) · 1999 – 2003 · csgi.com

Highly customisable billing and customer relationship management solutions for the mobile telecommunications industry. Using skills including C, C++, Java, BEA Tuxedo, BEA WebLogic, and Oracle RDBMS.

Senior Analyst Programmer

Dialog (now NCS) · 1993 – 1998 · ncs.co

Analyst Programmer

CITEC · 1990 – 1992 · citec.com.au

Java

Spring, Hibernate, Java SE,
Java EE, Jakarta EE, EJB,
JPA, Servlets, JSF, JSP,
JUnit, Apache Camel,
Liquibase, IntelliJ

Scala

Scalaz, Slick, Play
Framework

Haskell

Yesod, Persistent, Servant,
Hspec, Tasty

CI/CD

GitHub, Bitbucket, CircleCI,
GitLab, Jenkins

Infrastructure as Code

Terraform, Pulumi, Helm,
Nix

Frontend

TypeScript, JavaScript,
HTML, CSS, Ember.js,
Angular, jQuery

Education

Master of Information

Technology

Queensland University of
Technology
GPA 6.0 of 7.0

Bachelor of Applied

Science (Computing)

Queensland University of
Technology
GPA 5.2 of 7.0

Professional Development

Kotlin for Java Developers

JetBrains, Coursera • Jul, 2023

Engineering Chapter in Technical Leadership

Folklore Ventures • May, 2023

Type-level programming with GHC

Andres Löh, Well Typed • Oct, 2019

Scalable Microservices with Kubernetes

Kelsey Hightower, Google • Feb, 2017

Real-time Stream Processing with Rx

Erik Meijer & Brian Beckman • Dec, 2012

Functional Programming Principles in Scala

Martin Odersky, EPFL • Nov, 2012

Advanced Scala

Miles Sabin, Chuusai • Oct, 2012

Compilers

Alex Aiken, Stanford • Jun, 2012

Introduction to Scala

Workingmouse • Sep, 2008