



# STEVEN SHAW

## Seasoned Software Engineer

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

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As a software engineer with over three decades of hands-on experience, I bring a rich breadth and depth of knowledge and expertise. My passion for technology keeps me ahead of industry trends, leading to my advocacy and early adoption of transformational ideas such as DevOps, functional programming, agile, and object-oriented programming. I approach my work with enthusiasm, humour, and common sense, fostering a positive and productive team environment.

I specialise in writing clean, reliable code and excel at problem-solving and troubleshooting. Recently, I've been a backend-focused engineer who also takes care of DevOps concerns and often site reliability. However, I'm a generalist and am happy developing on the frontend too. I've largely been using Haskell for the last 7 years; before that Java for 15 years, and at the start of my career, I did C and C++ for 10 years. Recently, I've been upskilling in Java, Scala, Kotlin, Rust and web frameworks: Spring Boot, Micronaut, Quarkus, and Axum.

- Languages: Java, Scala, Kotlin, Haskell, Rust, Go, TypeScript.
- Cloud: GCP, AWS.
- Container Orchestration: Kubernetes, ECS.
- CI/CD: GitHub, CircleCI, GitLab, Bitbucket, Jenkins.
- Infrastructure as code: Terraform, Pulumi, Helm, Nix.
- Application Performance Monitoring: Datadog, New Relic.
- Functional programming enthusiast.
- I love to work with Continuous Delivery and Deployment.
- DevOps: Embraces "you build it, you run it" approach.
- Trusted mentor for technical advice and personal support.

### Domains

Startups, Finance, Travel,  
Telecommunications, and  
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

## Experience

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### Senior Software Engineer

**TLC SRC** • 2003 – Present

Independent contractor working with various client 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, TypeScript, Go, C#, .NET, Python, Terraform, and Nix.

### Principal Software Engineer

**Ephox (now Tiny)** • 2013 – 2014 • [tiny.cloud](https://tiny.cloud)

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

### Senior Technical Software Developer

**ADC (now CSG International)** • 1999 – 2003 • [csgi.com](https://csgi.com)

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

## 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

Queensland University of Technology

Master of Information Technology  
2000 – 2004  
GPA: 6.0/7.0

Queensland University of Technology

Bachelor of Applied Science (Computing)  
1989 – 1992  
GPA: 5.2/7.0

## Senior Analyst Programmer

**Dialog (now NCS)** • 1993 – 1998 • [ncs.co](https://www.ncs.co)

Consulting at various clients using skills including C, C++, Ingres, Oracle, and shell scripting.

## Analyst Programmer

**CITEC** • 1990 – 1992 • [citec.com.au](https://www.citec.com.au)

Working as an intern using skills including C, Ingres, and DCL.

## Professional Development

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### 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