

Tim Dalton

St. Louis, Missouri

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B.S. Computer Science – University of Missouri–Rolla (1990)

Experienced Software Engineer

Senior software engineer with extensive experience building desktop applications, enterprise web applications and developer tooling across industries. Deep background in the Java ecosystem, scalable backend systems and modern web stacks. Experienced in both legacy modernization and greenfield development.

Core technologies:

Java, Spring Boot, REST, Scala, SQL, JavaFX, Swing, C

Additional Professional Experience:

Micronaut, TypeScript (Svelte, Angular), Akka, Docker, Redis, DynamoDB, C#, LINQ, SQL Server, MySQL, PostgreSQL

Personal Exploration / Side Projects:

Rust, Python (Jupyter Notebooks), Go, Kotlin, TypeScript (React)

Professional Experience

Object Computing, Inc. — Principal Software Engineer

July 2007 – March 2026

Worked on a variety of enterprise consulting engagements across healthcare, aerospace, finance and bio-tech.

Recent Engagements

- Developed a web application using Micronaut, REST, MySQL and Svelte, integrating Leaflet maps for geospatial visualization.

- Ported a high-throughput Scala/Akka backend to Spring Boot using Redis and Amazon DynamoDB to support scalable distributed workloads.

Healthcare Systems

- Contracted with bioMérieux developing UI software for a blood culture testing appliance using Java, Spring Boot, Hibernate, PostgreSQL and GWT.

Aerospace

- Developed engineering analysis desktop software at Boeing using Java/Swing with native libraries in C, C++ and Fortran.
- Developed JavaFX tablet application for Boeing – Continental DataGraphics used in interactive aircraft maintenance manuals.
- Participated in migration of PTC Windchill customizations to a new platform version using ExtJS front-end and Spring MVC REST services.

Enterprise Web Modernization

- Modernized Maritz web applications by migrating from proprietary frameworks to Spring MVC and AngularJS.

Desktop and Device Integration

- Developed fault-tolerant Java/Swing system for managing and collecting standardized test results from custom wireless devices.

Financial Services

- At Wells Fargo Home Mortgage, built utilities to extract and transform data from Excel, HTML and PDF sources into SQL Server, with C#/Silverlight UI using LINQ.

Enterprise Application Development

- Contributed to a Java/Swing enterprise system at Monsanto using SOAP web services and Hibernate.

- Maintained and enhanced client web portal at Express Scripts using Spring MVC and SOAP services.

Community and Technical Leadership

- Created and taught Struts 2 web framework training courses at Washington University Center for the Application of Information Technology.
 - Did a presentation on the Scala programming language at St. Louis JavaSIG and the Gateway Software Symposium (No Fluff Just Stuff tour).
 - Published articles for OCI - Software Engineering Tech Trends (SETT) on subjects:
 - Scala
 - JBehave
 - Vert.x
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A.G. Edwards & Sons — Senior Technology Engineer

Aug 1998 – Jul 2007

- Designed an internal file generation tracking platform including a Perl API and Java/Struts/Hibernate admin interface.
 - Built automated ETL testing framework for DataStage pipelines using JUnit and XML validation.
 - Supported infrastructure on Compaq NonStop OSS POSIX environment, including TUXEDO C services.
 - Developed infrastructure monitoring tools using Java Swing with RMI callbacks.
 - Deployed WebLogic Server and built JSP/Servlet utilities for internal development teams.
 - Ported open source software to Compaq NonStop platform including C++ libraries, TCL, and OpenLDAP.
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MasterCard International — Software Engineer

Dec 1994 – Aug 1998

- Developed systems for international banking file transfers using C on NCR UNIX and Tandem NonStop platforms.
 - Administered Tandem NonStop Guardian OS environments.
 - Automated operational workflows using TACL scripting.
 - Maintained BASE-24 home banking platform, including code modifications in Tandem TAL.
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May Department Stores Company — Technical Support Analyst

Jul 1991 – Dec 1994

- Developed administrative tooling for Tandem NonStop Guardian systems using COBOL and TACL.
- Built utilities to streamline operational and file management processes.