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Profile

With over two decades of experience in technical and technical lead roles, my work has focused on development tools for mobile, web and database client applications. I have primarily worked in Java both on the desktop and backend. I also have broad experience working on CLI system that include scripting in Bash and Python as well as build systems in Ant, Maven and Gradle.

Experience

SENIOR PRINCIPAL ENGINEER, ORACLE — 2021-2025

Led the development of tools for Oracle Autonomous Database (ADB) in IntelliJ and Eclipse.

Led the development of eight releases of the Oracle Toolkit for IntelliJ plugin. Worked with product management to create feature specifications and release objectives. Designed and implemented IDE features using Java, Swing and IntelliJ frameworks. Set up JetBrains Marketplace listing, and created and managed the build system in Gradle. Managed a CI/CD workflow in TeamCity and then migrated it to Gitlab. Managed a simple release process for pushing new versions to the JetBrains Marketplace. Implemented features leveraging the OCI Java SDK.

Designed, coded and tested contributions to Database Navigator (DBN). Wrote extensions to integrate our existing OCI toolkit plugin as well as adding new database connection modes including Azure and OCI oAuth support. Mentored a new intern and guided their enhancement of DBN's PL/SQL debugger for use on OCI Autonomous Database instances. Added a new Gradle-based build and CI/CD on Gitlab.

Delivered four releases of Oracle Toolkit for Eclipse. Led the design and implementation of the open source plugin for Eclipse. Wrote features to handle managing ADB instances and connecting them from the IDE to enable database development features. Updated the maven-based build.

Created a new release line of Oracle's Data Tools for Eclipse focused on supporting ADB. Refactored original features from the legacy Oracle Enterprise Pack for Eclipse DTP sub-project. Added connect features such as oAuth login to ADB. Enhanced existing features for doing IDE-based database schema and SQL development. Took over the Eclipse marketplace listing and released a new "1.0" version of the software.

SENIOR PRINCIPAL ENGINEER, ORACLE — 2012-2021

Designed and wrote a cloud-based build system for enterprise mobile application development that produced APK and IPA application bundles and did not depend directly on Xcode or the Android SDK. The service was Java and Servlet-based and ran on Jetty, Tomcat or Oracle WebLogic Server. The service has been deployed across both single and multi-tenant topologies in three major Oracle cloud development offerings: Mobile Cloud Service (MCS), Development Cloud Service (DCS) and Visual Builder / Visual Builder Studio (VBCS/VBS).

Designed and wrote the build and deploy components for the Oracle Mobile Application Framework (MAF) on Eclipse (OEPE). MAF was Oracle's Cordova-based enterprise application framework for desktop IDE-based development. The components included a UI front-end that integrated with Eclipse and a build system implemented in Ant, Java and Javascript. The build system could be run from Eclipse or as a headless CLI.

Designed and wrote IDE support for JSF Facelets in Oracle's Enterprise Pack for Eclipse. Features included a customized Facelet parser, page validation and in-editor support for content-assist.

PRINCIPAL SOFTWARE ENGINEER, TIBCO — 2011-2012

Worked on various features for TIBCO's Eclipse-based SOA application platform including re-writing their P2 Director-based desktop install program using Ant.

UI LEAD, TRADESCAPE — 2011

Worked on a clearing application for processing transactions generated by Internet real time ad sales.

SENIOR PRINCIPAL ENGINEER, ORACLE — 2006-2010

Lead developer on the web tier tools components of Oracle Enterprise Pack for Eclipse (OEPE). Committer and lead developer on three releases of the JSF Tools Project (Eclipse WTP sub-project).

Features included support for EL code validation and content assist, JSF/JSP custom tag support and enhancements to an HTML visual editor for JSF and HTML. Also wrote extensions that provided design-time analysis data to the "AppXray" tool that provided validation and other insights into JEE web tier applications.

SOFTWARE DEVELOPER, BLACKBERRY (RIM) — 2004-2006

Original developer on an Eclipse-based tool for rapid development of Blackberry mobile applications.

Education

University of Waterloo, Ontario, Canada — B.Math, Computer Science

Patents

Bateman, et al. System and method for generating safe and efficient component relationships in wireless applications, 8,074,208, United States Patent and Trademark Office, 6 December 2011.

Bateman, et al. System and method for unified visualization of two-tiered applications. US 8,006,224, United States Patent and Trademark Office, 23 August 2011.

Qing, et al. System and method of presenting entities of standard device applications in wireless devices. US 7,835,726, United States Patent and Trademark Office, 16 November 2010.

Shenfield, et al. System and method of representing data entities of standard device applications as built-in components. US 7,805,735, United States Patent and Trademark Office, 28 September 2010.