

David Orme

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Experience and Accomplishments

Senior Engineer, Rally Health

July 2017-Present

Chicago, Illinois

- Improved Rally's *Find and Price Care* application that enables consumers to find providers and price procedures and care paths.
 - Enhanced the searching and sorting back-end web services using Scala and Play Framework.
 - Added features to the Javascript/React single-page application front-end. This is/was my initial professional experience using Javascript for production work.
- Created a translator for converting a web service specification in OpenAPI format to Scala source code for the corresponding web service client. This program became a successful internal open-source project used across many Rally back-end services with broad community support. Notable community contributions include server stub generation, cross-version API compatibility detection, and test framework generation.
- Developed and delivered Rally's new-hire Scala training program, which we open-sourced at <https://github.com/rallyhealth/scala-bootcamp>.

Technical Lead, Brad's Deals

April 2015-March 2017

Chicago, Illinois

- Lead implementation of agile estimation and retrospectives across all engineering teams at Brad's Deals.
- Lead a team of 2-4 developers rewriting the Brad's Deals ETL process from Pentaho into Clojure. This system merges, cleanses, and transforms data coming from business partners into an Amazon Redshift data warehouse.

Senior Engineer, Here/Navteq

Nov. 2013-Feb. 2015

Chicago, Illinois

- Helped create, code, and ship the first highly-automated driving (HAD) prototype in conjunction with BMW (<https://www.youtube.com/watch?v=2hJLLh0lck>). This streaming big-data system uses Amazon Web Services, Twitter Storm, and Apache Tomcat to process data from cars fused with road network data in near-real-time.
- Built several testing support tools using Scala including remote server scripting tools, a sinkhole server for testing HTTP services (using Play Framework), and an implementation of Unix pipes over Scala's `Iterable[T]`.

Consultant, then Associate, J. P. Morgan

June 2007-Nov. 2013

New York, London, Glasgow

(100% on distributed teams; telecommuting from metropolitan Chicago)

- **Technical lead, then leader** for Business Modeling Workbench, a collection of several domain-specific languages designed and/or implemented using Java, Eclipse EME, and Scala for moving data among systems.
- **Technical lead, then leader** for the OneBench project, an effort to productize Eclipse RCP for internal financial application development.

- Won the 2007 Eclipse Community Award for best RCP application deployment.
- Identified and described how to use monads in Java for a Domain Specific Language framework.
- Created XScalaWT, a Scala domain-specific language for describing rich graphical user interfaces in Scala using a functional programming style.

Consultant, The Pampered Chef

Aug. 2005-March 2007

Addison, Illinois

- Created a peer-to-peer rich client web services application deployed to 40,000 clients worldwide.
- Constructed architecture for an enterprise application based on Eclipse.
- Integrate the new JFace data binding framework from Eclipse.org, realizing a 40% productivity improvement.

Consultant, Sarvega, an Intel company

June-Aug. 2005

Oak Brook, Illinois

- Analyzed requirements and designed a next-generation graphical interface to be built on Eclipse Rich Client Platform (RCP), plus EMF and GEF. Delivered a high-fidelity prototype of the new system.

Consultant, db4objects

2004-2005

San Mateo, California (100% distributed team)

- Built the db4objects Object Manager, a browser and ad-hoc query tool for the db4objects Object Database.
- Acted as a liaison between db4objects and the Eclipse Database Tools Project and Visual Editor Projects.

Chief Architect, Advanced Systems Concepts

2001-2004

Schaumburg, Illinois

- Conceived, implemented, and launched The SWTworkbench Project, a dual-licensed (GPL and commercial) product providing tools required to efficiently use Eclipse's SWT user interface tools in business applications.
- Created, started, and lead the Eclipse.org Visual Editor Project, an Eclipse project to add first-class GUI editing for Swing and SWT to the Eclipse IDE.
- Created an Eclipse version of ASC's ABSTRACT code-change analysis tool for System i (i5, iSeries) applications.
- Added Visio graph drawing support to ASC's ABSTRACT product using C++ and OLE automation.
- Created an RPG program flowcharting tool for ABSTRACT in C++.

President, Senior Consultant, Coconut Palm Software

1995-2001

Bronx, New York and West Lafayette, Indiana

- Created Sword/PDA, an open-source Bible reading program for the Agenda PDA in C++, C, Lex, and YACC.
- Programmed interactive web pages for John Lucht's *Rites of Passage-RiteSite* Web site using PHP and Postgres.
- Created a Java Servlet solution for displaying, distributing, and printing reports for both Shain Colavito Pensabene Direct and Rapp-Collins (two prominent New York advertising agencies).
- Analyzed, designed, and implemented the print media tracking / buying system at Rapp-Collins. Used UML for analysis and Delphi Client/Server and Advantage SQL database server for implementation.
- Updated the broadcast media tracking, planning, and buying systems and Shain Colavito Pensabene from Clipper to Delphi and Java / Servlets.
- Helped rewrite the New York City Department of Health disease registry from a mainframe system that only

handled tuberculosis cases to a Delphi and Interbase client/server solution.

**Visiting Assistant Professor,
Department of Computer Technology, Purdue University**

1999-2001

West Lafayette, Indiana

- Designed and delivered CPT 388, Internet Programming.
- Developed and administered a Linux-hosted Perl/Java Web server for the Department of Computer Technology.
- Taught and rewrote CPT 385, Rapid Application Development.

Education

- M.S., Columbia University, New York NY: Computer Science, 1999.
- B.A., Taylor University, Upland IN: Computer Science, artificial intelligence emphasis, 1991.