PHILLIP TOLAND, SOFTWARE DEVELOPER

13831 Brooklet View Ct • Houston, TX 77059 • (281) 851-3954 • phil.toland@gmail.com http://philtoland.com • blog: http://fiatdev.com • twitter: philtoland

SUMMARY OF QUALIFICATIONS

14 years of experience working with such diverse technologies as Erlang, Ruby, Java, C++ and .NET. Solid knowledge of UNIX platforms such as Mac OS X and various flavors of Linux. Able to adapt to changing circumstances during development and to effectively communicate project status to stakeholders. A strong belief in agile development methodologies and a committment to delivering software early and often.

OPEN SOURCE PROJECTS

All source code is hosted at http://github.com/toland

bdberl	Erlang port driver providing access to BerkeleyDB	Erlang, C
erlbox	Rake tasks and scripts for building Erlang programs	Ruby, Erlang
patron	Ruby HTTP client based on libcurl	Ruby, C
recall	Simple Ruby -> Mnesia bridge	Ruby, Erlang
qlmarkdown	QuickLook generator for Markdown files	ObjectiveC
app_version	Rails plugin for managing your web app's version number	Ruby

PROFESSIONAL EXPERIENCE

Software DeveloperThe HiveSep. 2007 – PresentNeedham, MA

Project Magneto (Developer)

- Worked with two other developers to build a distributed, fault tolerant data storage system in Erlang.
- Assisted in writing backends for Mnesia, Tokyo Cabinet and BerkleyDB (bdberl).
- Wrote a resuable build framework with Rake and scripts written in Ruby and Erlang (erlbox).
- Wrote an HTTP/JSON front end to the core storage service with Mochiweb and eep0018.
- Wrote a Ruby client for the HTTP interface and provided a high-level API similar to ActiveRecord.
- ❖ Worked on a C++ client that used the HTTP API and an Erlang client that interacted with the server using RPC.
- ❖ Built a web admin application in **Erlang** using the **Nitrogen** framework.
- Consistently delivered releases every two weeks.

Publisher System (Developer)

Worked with a team to build the second generation affiliate system for singlesnet.com using Ruby on Rails.

Infrastructure

- Assisted in migrating the development team from Subversion to Git. Managed the company's Git repositories.
- ❖ Setup and administered **Redmine** as a replacement for **Trac**.

Enterprise Architect

Jan. 2006 – Aug. 2007

CapRock Communications Houston, TX

<u>CapRock Customer Portal (Developer)</u>

- Developed a customer facing web application for CapRock.
- Original spec called for development in Java. Ruby on Rails was used instead due to very tight schedule.
- Worked closely with project manager to track changing customer requirements.
- The portal integrates with HP OpenView ServiceDesk, CA Spectrum and in-house applications.
- ❖ Portal interface uses valid semantic XHTML and CSS.
- ❖ The portal is deployed on Ubuntu Linux and is developed on Mac OS X.

CapRock Enterprise Architecture (Enterprise Architect, Developer)

- Documented existing CapRock architecture.
- Organized monthly "lunch and learn" sessions where team members give a presentation during lunch.
- Designed and implemented several system integrations using Ruby, Rails and Perl

Phillip Toland Software Developer

Project Architect Dec. 2001 – Jan. 2006 Epoch Well Services, Inc. Houston, TX

Epoch Application Framework (Project Architect, Developer, XP Coach)

- Designed an application framework to be used by all future desktop application projects.
- The Data Access Framework uses the Hibernate EJB3 implementation for entity based data access.
- The Hibernate EntityManager, Hibernate Annotations, JUnit and DbUnit are used to perform unit testing.
- ❖ The Client Framework uses the Eclipse Rich Client Platform.
- Clients communicate with a central server using web services.
- Sold the concept of integrating an **agile process** with the **RUP** to management and led the effort to implement the process with this project. Using this process the team recently completed its first milestone on schedule.

Real-Time Scroll Graph Project (Project Architect, Developer, Project Lead)

- This project was the pilot project for the Rational Unified Process.
- Created the system architecture using ArgoUML, Visio and Rational Software Architect. Produced UML diagrams, a formal Software Architecture document and created all of the service interfaces specified in the architecture.
- Evaluated several remote service technologies including Java RMI, Caucho Hessian and SOAP web services using JAX-RPC and Apache Axis. Chose Hessian based on performance, ease of development and low overhead.
- The system is a thin-client Java application that graphs instrumentation data retrieved using web services from an Oracle database. Hibernate and JDBC are used on the server to retrieve the data. The Spring Framework is used heavily on the server side.
- The client is implemented in Swing and deployed using Java WebStart. Runs on Java 1.4.2 and 1.5.
- Created a JSP administration site that allows support technicians to view log files and restart services. This site uses JDBC to retrieve data and uses the Spring Framework heavily.
- All server side code is deployed in JBoss 4 running on RedHat Enterprise Linux 3 using Java 1.5.
- Oversaw consultants developing a 3D component with Java3D.
- Began contributing code when one of the developers left the company. Took over as **Project Lead** when the previous Lead was moved to another project.
- Led the project to a successful first release and followed up with a maintenance release shortly thereafter.
- Prepared project plans, supervised consultants and junior developers, met with stakeholders and provided project status to management. Performed code reviews and approved designs.

Portal Project (Project Architect)

- Evaluated portal and application server technologies. Application servers evaluated include BEA WebLogic, IBM WebSphere and Oracle AS10g as well as PlumTree Portal.
- Managed integration between this project and the Real-Time Scroll Graph project.

Instrumentation Project (Developer, Project Lead)

- Led a team to rewrite the C++ version of the application in **C#**. Implemented client/server communications using **TCP** sockets and **UDP** multicast. Database access was accomplished using **ADO.NET**, was targeted at **MySQL** and took advantage of database replication functionality. The application included an XML configuration system, a plug-in architecture and a touch-screen interface.
- Fixed several major issues in the original C++ version of the instrumentation system.

Mudlogging Projects (Developer)

Was solely responsible for maintaining complex C++ MFC applications for mudlogging. Fixed many long standing issues and added significant features. Significant refactoring was necessary to deal with poor design choices and lack of documentation from the original developers.

Oct. 2001 - Nov. 2001	Consultant	Altra Energy Technologies	Houston, TX
Feb. 1999 – Sep. 2001	Lead Software Developer	Compression Engines	Houston, TX
Aug. 1998 – Feb. 1999	Programmer Analyst	Automated Internet Business Machines	Harrisburg, PA
Apr. 1998 – Sep. 1998	MIS Director	Pennsylvania HealthMATE	Harrisburg, PA
Apr. 1997 – Apr. 1998	System Analyst	AMP, Inc.	Harrisburg, PA
Aug. 1995 – Apr. 1997	Consultant	various clients	Carlisle, PA

CERTIFICATIONS