

# Ted Halmrast

Full Stack Software Engineer

## Education

- University of Minnesota, Institute of Technology, Minneapolis, MN  
BS/COMPUTER SCIENCE
- Hennepin Technical Institute, Eden Prairie, MN

## Companies

**Volerro** 2012 - 2014  
FOUNDER

- Designed and developed Volerro's front-end software as a SPA application using Backbone and Angular.
- Designed and developed Volerro's back-end software using Scala, Node.js, MongoDB, and ElasticSearch.
- Worked on developing Volerro's mobile application using PhoneGap and Angular.
- Fully automated deployment, execution, monitoring, and scaling of Volerro's infrastructure using shell scripts and Amazon Web Services APIs as primary DevOps.

**8thBridge** 2010 - 2012  
SOFTWARE ENGINEER

- Designed, developed, and deployed a social shopping service which allowed customers to design shoplets to be embedded into Facebook users' stream using JavaScript, Scala, MongoDB, and CouchDB on Amazon Web Services.
- Automated 8thBridge's infrastructure using Chef and Amazon Web Services APIs.

**Swarmcast** 2008 - 2010  
SOFTWARE ARCHITECT

- Developed an implementation of Apple’s HTTP Live Streaming IETF protocol for live streaming playback of internet video for Linux set-top boxes using C++.
- Designed, developed, and deployed an analytics system for tracking video consumption using Postgres, R, Java, Declarix, Flash, and Flex on Amazon Web Services.

**Declarix** 2005 – 2008  
CTO

- Designed, developed, and deployed an information management system using Amazon Web Services, Flash, Flex, Java, and Postgres.
- Designed and developed a rich WYSIWYG declarative user interface designer using Flash/Flex.
- Designed and developed the Intelligent Query Language (IQL) along with its compiler and virtual machine for Declarix using JavaCC.

**SPS Commerce** 2003 - 2004  
SENIOR SOFTWARE ENGINEER

- Developed and maintained a catalog system using Java, Perl, Delphi, DCOM, and Windows NT.

**Nistevo** 2000 - 2003, 2004 - 2008  
SENIOR SOFTWARE ENGINEER

- Developed and maintained OLAP reporting system using Java, Oracle, Windows NT, and Solaris.
- Developed and maintained reports using BRIO, Oracle, and Solaris.
- Designed, implemented and maintained a four tier enterprise application for a logistics application service provider (ASP) company using Java, Windows NT, Solaris, DHTML, JSPs, Servlets, iPlanet, JServ, Tomcat, Declarative Programming, J2EE, GemStone, CVS, Visual Age for Java, XML, SAX, DOM, JDOM, MySQL, XSL, Oracle, Oracle Discoverer, JDBC, Photoshop, JUnit, and Bugzilla.
- Designed, implemented and maintained an extensive Model 2 web UI framework using Java, DHTML, JSPs, Servlets, iPlanet, Declarative Programming, and J2EE.

**Information Advantage** 1997 - 1999  
SOFTWARE ENGINEER

- Designed and implemented a CORBA bridge between a proprietary object brokering system and CORBA using Java, C++, Visibroker for Java, Visibroker for C++, and Unix.
- Designed and implemented a portable OLAP engine and analysis tool using Java.
- Designed, implemented and maintained parts of the Eureka Portal using Java, XML, SAX, Swing, Visual Cafe, Source Safe, JBuilder, Visual Slickedit, Windows NT, Unix, SQL Server, Oracle, Informix, LDAP, DB2, InstallShield Java Edition, and Photoshop.

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## Skills

**FRONT END**  
Angular, Backbone, PhoneGap, jQuery, jQuery UI, less, Sass, Browserify, RequireJS, socket.io, OAuth 1/2, Flash, Flex, Responsive Design, Ionic Framework, Twitter Bootstrap

**BACK END**  
Node.js (express), JVM (Jetty, Tomcat), ElasticSearch, RabbitMQ

**LANGUAGES**  
JavaScript, Scala, Java, C, C++, bash, sh, Perl, Ruby, SQL

**DATABASE**  
MongoDB, Postgres, MySQL, CouchDB

**TOOLING**  
git, GitHub, mercurial, Subversion, Grunt, gulp, PhoneGap Build, make, Maven, sbt, jslint, jshint, npm, bower, JIRA, Basecamp, Jenkins, Travis

**TESTING**  
Chai, expect, karma, mocha, JUnit, BrowserMob (neustar)

**IAAS**  
Amazon Web Services (EC2, ELB, S3, CloudFront, Auto Scale, Route 53, MFA, RDS, SES, SQS), Chef, Docker, New Relic, StackDriver

**SAAS**  
Braintree Payments, Facebook Login/Analytics, Google Login/Maps, Crocodoc/Box, LinkedIn Login, Twitter

**OS**  
Amazon Linux, CentOS, Ubuntu, OS X, Windows

**METHODOLOGIES**  
Agile / Scrum, TDD

## Projects

- Created and maintain the open source Mail.js project -- <http://mailjs.org>.
- Created and maintain the open source Responsively.js project - <http://responsivelyjs.org>.
- Designed and implemented a JavaScript compiler and virtual machine for an interactive game.
- Created a video game and associated micro-OS (to make more memory available) using 250K lines of 65C02 assembly language while in Junior High School.