

**Jay S. Doane**

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**Overview**

Experienced developer and open source contributor with background building: web sites & services, geo-aware applications, social networks, instant messengers, recommendation systems, automation, etc., seeks engaging projects.

**Software Development**

*Languages:* Python, Erlang, Javascript/JSON, Lisp, HTML, CSS, Java, SQL, Bash, Regex, C, C++, XML.

*Web:* (Geo)Django, RabbitMQ, Nginx, Mochiweb, Webmachine, Nitrogen, Apache, Memcached, Pylons, Twisted, JQuery, Greasemonkey, Curl.

*Database:* Postgres/PostGIS, MySQL, Riak, Mnesia, CouchDB, Berkeley DB, SQL Alchemy, Hibernate.

*Tools:* Emacs, Git/hub, Hg, Subversion, xUnit, Buildbot, Hudson, Firebug, Selenium, Trac, IntelliJ, OmniGraffle.

*Protocols:* HTTP/S, SSH, SMTP, IRC, DNS, DHCP/BOOTP/PXE, TCP/IP.

*Methodologies:* Open Source, Test Driven Development, Scrum.

**Operations**

*Tools:* VMWare, Screen, Supervisor, Capistrano, Iptables/ufw, ZXTM, Nagios, Hyperic.

*Operating Systems:* Linux (Ubuntu, Debian, CentOS), MacOS X.

**Employment History****Software Developer**

*genForma* (Mountain View, CA)

*April 2010–Present*

- Developed Hudson/libcloud based continuous integration node deployment tool

**Software Developer**

*Splicefeed/Blipboard* (San Francisco, CA)

*April 2009–April 2010*

- Created geolocating mashup using Google Maps v3, Twitter Search & JQuery
- Prototyped distributed key-value data storage layer using Riak
- Implemented real time web notifier with Orbited/Stomp, Django & Nginx

**Software Developer**

*Freelance* (San Francisco, CA)

*July 2008–April 2009*

- Created m82.com: a free anti-spam service running Nitrogen on Erlang/OTP and Postfix, with a RESTful interface for Greasemonkey script; source at <http://github.com/jaydoane/subdomain>

**Operations Engineer**

*Loomia* (San Francisco, CA)

*May 2006–July 2008*

- Managed data center of rapidly scaling web services startup
- Wrote configuration and release automation code
- Optimized MySQL schemata to improve performance and enable MySQL dual-master replication
- Automated service monitoring and developed algorithms to selectively throttle destabilizing traffic

**Senior Software Engineer**

*Tribe Networks* (San Francisco, CA)

*March 2005–April 2006*

- Built Ajax contact importer
- Implemented content tagging & flagging

- Wrote high-throughput, caching email digest system

#### **Bioinformatics Developer**

*The Molecular Sciences Institute (Berkeley, CA)*

*March 2003–October 2004*

Maintained & enhanced Monod, a Java based, open source, collaborative, molecular biology model building tool

#### **Software Developer**

*Freelance (San Francisco, CA)*

*September 2001–December 2002*

- Wrote C++/STL generic correlation detector for PlanetQuest open source extrasolar planet discovery application
- Built multithreaded Python data collector and state controller for solar power system

#### **Software Architect**

*Modulant Solutions (San Francisco, CA)*

*February 2001–September 2001*

- Designed inversion-of-control architecture for schema mapping and data transformation components
- Implemented benchmarks, identified and solved performance bottlenecks

#### **Principal Engineer**

*Vivid Studios/Modem Media (San Francisco, CA)*

*March 1999–February 2001*

- Scoped, wrote proposals, pitched, specified requirements, documented technical design, implemented, and developed maintenance plans for 3-tier web applications, primarily using Java/J2EE

#### **Software Engineer**

*THEM Productions/Online Partners (San Francisco, CA)*

*February 1995–July 1998*

- Developed web based instant messaging application with a Java client and IRC-based C server talking to Postgres
- Decreased server downtimes by writing server supervisor Perl script with X10 interface
- Built multimedia script editing tool with Delphi for Windows
- Developed the PC version of the Electronic Arts game **Psychic Detective** in C++

## **Education**

#### **Certificate in Web Programming with Erlang**

Erlang University

#### **Ph.D. in Astronomy and Astrophysics**

University of California, Santa Cruz

#### **B.A. in Physics**

University of California, Santa Cruz

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