

# Drew Stephens

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[github.com/dinomite](https://github.com/dinomite)  
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## SKILLS

**Languages:** Kotlin, Java, Ruby, Perl, PHP, JavaScript, Python, shell

**Tools:** PostgreSQL, MySQL, Redis, Git, Linux, Ganglia, Graphite, Kafka, Zookeeper

**Ops:** Ansible, Vagrant, Docker, Puppet, Chef

**Dev:** Kanban, Continuous Integration, TDD, JUnit, Jest, Selenium, Jenkins

## EXPERIENCE

**Principal Engineer and Co-Founder at Forum For All**, Arlington, VA 2016–present

- Designed and built real-time chat system with Rails, WebSockets, backed by PostgreSQL and Redis
- Created JVM based system written in Kotlin to offload most performance-sensitive tasks
- Led team to adopt React to unify our client codebase and produce mobile apps with React Native
- Guided technical decisions based upon the needs of the business

**Engineering Director at American Express**, Palo Alto, CA (remote) acquired Palomino Labs 2014

- Led rollout & implementation of analytics in previously opaque mobile apps
- Redesigned and ground-up rebuild of iOS and Android apps
- Modernized backend from Java 1.6 with WebSphere dependence to Java 1.8 with embedded Jetty
- Moved backend deployment from internal PAAS system to standalone AWS environment

**Principal and Architect at Palomino Labs**, Redwood City, California (remote) 2012–2016

*ABPT*—Surgery Document Management System (SDMS)

- Built a HIPAA compliant, Java-based cryptographic proxy for storage of medical data in Amazon S3
- Designed highly available infrastructure for secure document storage
- Integrated Java and Rails via secure API with bidirectional SSL certification verification

*ReactLabs*—real-time vote and reaction collection

- Led client interaction and guided development based upon client goals
- Built Java shim for vastly increasing performance by caching Google App Engine responses in S3
- Reimplemented voting system for reduced cost and million user scale with Java & Redis
- Extensively used Amazon Web Services: CloudFront, Relational Database Service, Load Balancers

*Taulia*—automated performance testing

- Created distributed load tester for Cassandra (<https://github.com/palominolabs/benchpress>)
- Integrated load tester with Taulia code and setup continuous integration to automatically run tests
- Used bench testing framework to identify bottlenecks in code changes early

**Software Engineer at AddThis**, McLean, Virginia 2010–2012

- Led adoption of metrics tracking capturing 80,000 data points per minute from hundreds of hosts
- Advised team on Lean and Agile practices to increase productivity and code quality
- Maintained high-performance Spring-based APIs supporting 6 million daily requests
- Created real-time system using Kafka to handle thousands of events per second
- Managed deployment of services across geographically redundant zones

**Development Manager & Software Engineer at Genius.com**, San Mateo, California 2008–2010

- ScrumMaster of two teams each consisting of four developers, two QA engineers, and one DB engineer
- Primary maintainer of large mod\_perl rewriting proxy server; rewritten using mod\_perl2 and Moose
- Developer for the main codebase consisting of object-oriented PHP

- Developer for Java portion of codebase used for speed-critical data processing
- Employed Scrum, Extreme Programming, and Lean software development practices
- Led team from a two month release schedule to releasing every two weeks (each sprint)

**Software Engineer** at **SAIC**, Chantilly, Virginia, Summer 2005, Summer 2006, January 2007–April 2008

- Developed Java software for automatic biometric matching of large subject data sets
- Evaluated performance of commercial biometric algorithms
- Administration of Windows and Linux servers including automation using shell scripting and Perl
- Developed software to test algorithms using a generic biometric algorithm application framework
- Used XML and Oracle DB to create applications for DOD and national security clients in Java & C++

## EDUCATION

**Rochester Institute of Technology, Rochester, New York**, 2002–2006

B.S. in Computer Science with minor in Psychology

## ACTIVITIES

**Cobra Kai** 24 Hours of LeMons & ChumpCar race team, 2011–2014

**Jaywatch** 24 Hours of LeMons race team, 2009–2011

**Hack Fortress**, SchmooCon computer & physical security challenge, 2009-2015

**Arlington County Community Emergency Response Team (CERT)**, 2012–present

## OPEN SOURCE

- GitHub <http://github.com/dinomite>
- Palomino Labs <https://github.com/palominolabs>
- CPAN <http://search.cpan.org/~dinomite>

## TALKS & ARTICLES

- Personal blog <http://dinomite.net>
- Palomino Labs blog <http://blog.palominolabs.com/author/drew>
- SlideShare <http://www.slideshare.net/dinomite>
- Talks repository <https://github.com/dinomite/talks>