Viktor Stanchev

4A Software Engineering   Email: me@viktorstanchev.com   Blog: http://viktor.land

Work Experience

Mozilla - Software Engineering Intern   Winter 2014

- Improved (performance, features) the Gecko Profiler and Cleopatra (frontend to the profiler)
- Added profiling capabilities to Talos (an automated performance testing framework)
- Technologies: C++, FirefoxOS, Python, JavaScript, HTML, CSS etc.

LinkedIn - Software Engineer   Summer 2013

- Designed and developed a distributed system for monitoring the performance of LinkedIn's graph database (which gets on the order of 100,000 qps)
- Designed and developed a front-end for displaying metrics collected with the new system
- Built a foosball / ping pong ladder which uses PageRank to rank players (as a hackathon project)
- Technologies: Java, Scala, gradle, Norbert, JavaScript, node.js, Play framework, backbone.js, d3.js, etc.

LinkedIn - Software Engineer   Fall 2012

- Developed a system for monitoring front-end performance throughout all of linkedin.com
- Worked at all levels: front-end JavaScript to Hadoop data analytics and data visualization
- Technologies: Java, JavaScript, Hadoop, Kafka, Teradata, Node.js, SQL, dustjs, InGraphs, Red Hat Linux, etc.

Tagged - Software Engineer   Winter 2012

- Implemented a machine learning algorithm for spam detection
- Source paper: *F. Qian, A. Pathak, Y.C. Hu, Z.M. Mao, and Y. Xie, "A case for unsupervised-learning-based spam filtering"*
- Technologies: Java, Scala, JavaScript, Spring, Ubuntu, etc.

SpeechBobble (renamed to SociaLabra) - Web Application Developer   Summer 2011

- Built front-end features in a private social network
- Found and fixed half of the top 10 OWASP 2010 issues
- Technologies: Java, JavaScript, MySQL, FogBugz, JBoss, Tomcat, etc.

Enomaly (acquired by Virtustream) - Drupal Developer   Fall 2010

- Developed and improved custom modules for Drupal 6, designed database tables, etc.
- Technologies: PHP, Apache, JavaScript, MySQL, Trac, SVN, AJAX, jQuery, CSS, GIMP, Ubuntu, Tomcat, Solr, etc.

Projects

Recent adventures / conversation starters:

- A secure cryptocurrency exchange
- Peer to peer social network with end-to-end encryption and no third parties

Network Code Module   2013

- Built a kernel module for RT linux that implements Sebastian Fishmeister's language for real time network schedules
- Source paper: *Fischmeister, Oleg Sokolsky and Insup Lee, "Network-Code Machine: Programmable Real-Time Communication Schedules"*
- Technologies: Arch Linux, C, Python, bash, HTML, Bootstrap, JavaScript, CSS

WatTools   2011

- Crowd sourced repository of useful tools for Waterloo students with a custom GUI for editing
- Technologies: PHP, JavaScript, mustache, backbone.js, jQuery plugins

Education

Candidate for Bachelor of Software Engineering   2009 - present

- University of Waterloo, Waterloo, ON, Canada
- Cumulative Average ~85%

International Baccalaureate and OSSD   2005 - 2009

- Weston Collegiate Institute, Toronto, ON, Canada

Interests

Software architecture, P2P, operating systems, security, social networks, machine learning, reverse engineering, privacy

Misc. Skills

- Programming (descending, by skill / experience): JavaScript, Scala, Python, C++, C, Java, PHP, C#, Haskell
- Security: web applications, social networks, genetic algorithms
- Web technologies: Play, node.js, HTML, CSS, JavaScript (jQuery, mustache, bootstrap, backbone, etc.), single page apps, content management systems (Drupal and custom ones)
- Other: Linux, Android, PostgreSQL, Git, MySQL, Apache, Nginx, SVN, Mercurial