

JACK W. KINGSMAN

SUMMARY

- OOP PHP, Python, and JS Developer
- 5+ years of web application development and administration experience
- 10+ years of frontend development and framework experience
- Fluent in both *nix and Windows development environments
- Experienced in system security, maintenance, and network design
- Contributor to personal and FOSS projects at <https://github.com/jkingsman>

SKILLS & ABILITIES

TECHNOLOGICAL

- Web development and programming languages (*PHP, Python, node.js, JS/ES6, CSS, HTML*)
- Web Technologies & Version Control (*MSSQL/MySQL/MariaDB/MongoDB/Cassandra, Apache/IIS/Nginx/Express, Git(Hub)/SVN/Jira*)
- Backend frameworks (*Laravel, Twisted, general MVC*)
- Frontend engines and frameworks (*jQuery, Dojo, Bootstrap, 960gs, SASS/LESS*)
- OS setup and security (*CentOS/RHEL, Debian, Windows, Mac OSX*)
- *nix security administration (*iptables, SELinux, etc.*)

PROFESSIONAL

- Specification/test plan construction and maintenance
- Project management (*Agile, SWOT, cost benefit analysis*)
- Customer relationship management (*spec/needs analysis, corporate oversight*)
- Able to discuss tech needs in light of business benefits from the clients' perspectives.

EXPERIENCE

FACEBOOK – MENLO PARK, CA, JUNE 2016 TO PRESENT [PROJECTS IN PROGRESS]

Systems Engineering/Infrastructure Intern

- Enhanced autonomous maintenance systems for pre-release testing and issue remediation, both front facing UI and backend integration
- Oversaw low-level Linux system maintenance in preparation for large scale OS upgrades
- Updated automated system status monitoring to increase out-of-band issue detection capabilities to increase actionable data for maintenance teams

DATASTAX, INC – SANTA CLARA, CA, JUNE 2015 TO JUNE 2016

Development Engineering Intern

- Independently developed, implemented, and presented features built with Twisted Python and JS ES6 within the Dojo Toolkit
- Designed and built enhancements in DSE OpsCenter for system monitoring, including support for novel management protocols and low level, high accuracy fault detection and notification

- Established more rigorous unit testing protocols in the codebase to increase coverage assurance (in some cases, by more than 200%)

COBALTIX, LLC (FORMERLY ITEON CONSULTING) – SAN FRANCISCO, CA, 2010-2015

Development Engineer, 2012-2015

Engineering Intern, 2010-2012

(Part time work; full time during summers and gap year)

- Designed and developed front- and back-ends for large scale corporate applications
- Built comprehensive security and network plans for *nix environments
- Developed cost-benefit analyses, prepared proposals and spec designs, and translated C-level executive objectives into actionable, cogent, and relevant development tasks

PENNY ON THE RAIL – NOVATO, CA, 2004-2015

Developer and Owner

- Sole proprietor and developer responsible for all stages of web development
- Heavy work with CMS (especially WordPress and Drupal)

SELECTED PERSONAL PROJECTS

(all open source &
MIT licensed)

BISHOP

Conceived and developed a Chrome extension-based background vulnerability scanner to discover exposed version control systems, misconfigured administrative tools, and other low visibility attack surfaces as the user browses. Over 1,200 daily users.

FREESTEP

Fully end-to-end encrypted multi-party chat implemented using the novel Rabbit cipher. Created with high speed and full plausible deniability for server message handling in mind; realized using low latency and overhead protocols with support for multimedia, per-room security, and easily customizable cipher key generation for additional protection. At its peak, supported over 9,000 daily users on minimal hardware.

MOCKBOX

Designed and developed an in-browser SMTP server simulator for debugging SMTP clients in automated alerting systems, automailers, etc. Accomplished objectives of high concurrency, security in the face of malicious email payloads, and real time delivery of SMTP payloads through websockets with low latency and lean asynchronous protocol management, even with loads of up to 5000 simultaneous users. Received publicity from leading network security pundit Taylor Swift (the *other* Taylor Swift).

EDUCATION

SANTA CLARA UNIVERSITY (SANTA CLARA, CA) 2013-CURRENT

Candidate for Bachelor of Science in Computer Science and Engineering (2017)

MARIN SCHOOL OF THE ARTS AT NOVATO HIGH SCHOOL (NOVATO, CA) 2008-2012

Intensive arts school; emphasis in film and video production technology

MEMBERSHIPS AND ACCOLADES

- Second Place Winner, Bronco Hacks Hackathon, May 2015
 - Designed and built a distributed, secure, telephony-based leaking and whistleblowing system for developing nations
- Project Lead, Santa Clara University Maker Club, 2013-2014
- Eagle Scout, Gold Palm – BSA Marin Troop 200, 2010