

# WESLEY SPIKES

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## SUMMARY

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An accomplished software engineer and architect with a passion for leadership, security, systems, and mentoring. I seek out challenges as opportunities for growth, handle ambiguous situations well, and can break down complex problems into creative solutions with actionable tasks.

I am seeking a challenging senior technical or leadership role at a forward-thinking company.

## TECHNICAL STRENGTHS

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<b>Computer Languages</b>	Go, Python, Bash, SQL, Perl, $\text{\LaTeX}$
<b>Operating Systems</b>	Linux (CentOS, Gentoo, Ubuntu), OS X

## EXPERIENCE

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<b>Squarespace</b>	Dec 2017 - Mar 2020
<i>Senior Software Engineer</i>	<i>Remote</i>

- Successfully kept services online during the traffic spike from our annual Super Bowl ad.
- Architected and built a black box caching system for all customer websites; increased responsiveness from the CMS and reduced the number of requests to the application by 60%, in turn reducing HW requirements to run the platform. (Go, VCL, Python, Perl)
- Designed and built a system ensuring reliable broadcast of cache invalidation requests to all cache nodes. (Go, Java)
- Built a Varnish module to offload security operations onto the cache layer. (C)
- Managed the sunseting of early TLS support, including communication with stakeholders. (Java)

<b>DreamHost</b>	Oct 2014 - Aug 2016
<i>Senior/Lead Software Engineer</i>	<i>Los Angeles, CA</i>

- Managed two direct reports.
- Coordinated with other teams including Systems Engineering, Security, Support, and Corporate IT.
- Managed core development infrastructure, including Gerrit and Jenkins.
- Entrusted with various sets of secure credentials. Primary maintainer of deployed credentials.
- Post-exploit incident response.
- Modernized deployment of the primary codebase and its dependencies (fully documented), cutting deployment time down from 20 minutes to around 45 seconds.
- Technical and architectural lead on the DreamPress 2, VPS-SSD, and Malware Remover projects.
- Very active in internal security bug bounty program; reported several notable issues.

<b>DreamHost</b>	Jan 2011 - Oct 2014
<i>Software Engineer</i>	<i>Los Angeles, CA</i>

- Configuration management using both Chef and in-house systems.
- Projects included the launch of mod\_pagespeed (beat competitors to market) and the transition from subversion to git (including documentation and internal support).
- Major contributions to the foundations/core of an old codebase (1997), without breaking production.
- Notable contributions to the billing systems, thereby improving its resilience and extensibility.
- Created detailed documented how the fraud detection systems worked.
- Researched and documented many obscure settings and flags of the systems.

- Fixed multiple security issues in the codebase.
- Introduced CI processes from end-to-end, including: initial research/prototyping, getting buy-in, implementation, training, and supporting the new system.

**DreamHost**

Nov 2009 - Jan 2011

*Technical Support**Los Angeles, CA*

- At the time, DreamHost only hired graduates from Harvey Mudd College into the development teams.
- I joined into the Support team as a way into the dev teams, with the full support the VP of Support. (I was open and honest about this goal in the interview process.)
- Within 6 months, I was writing utilities for the support teams. A few months later, I was working 50% of the time with the dev team.

**Page Provider**

Dec 2006 - Nov 2009

*Systems Administrator**Rancho Cucamonga, CA*

- Startup hosting provider.
- Built and deployed custom kernels and software for colocated customers.
- Provisioned, deployed, configured, and managed both servers and services.