Martin Amps

Software Engineer

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Technical Skills

Coding

Full Stack Generalist. Java, lua, PHP, python, JS, SQL. Proficient in Bash, C#. Hacking with C/++, x86 assembly and golang.

Operations

Extensive experience deploying and operating high availability infracluture components such as openresty/nginx, caching layers, search engines, databases and more on both native hardware and cloud environments. Operational confidence and observability typically derived from munin, nagios, graphite, datadog, etc.

Debugging

Pragmatic approach to identifying and solving problems quickly and efficiently. Extensive real world profiling and performance optimization experience and many years of oncall stories.

Additional Projects

COVID Volunteering

Mar. 2020

Various roles from founding engineer to contributor for multiple projects such as findcovidtesting.com, c19coalition.com, projectn95.com, schoolclosures.org, and more.

ResistBot

Feb. 2017 — 2020

Founding Engineer for a team of volunteers where I helped build and maintain the bot which has generated over $1m revenue for Twilio and helped 6+ million constituents locate polling stations, send millions of letters to Congress and more, in just three years!

BandTogetherBayArea.org

Oct. 2017

Part of the tiger team who supplied communication needs and helped bolster ticket sales and donations for the organizations helping those in need following the bay area fires.

Experience

Stitch Fix — Sr. Principal Engineer

O-1 Visa | Austin | Mar. 2021 — Present

`AWS` `python` `postgres` `luajit` `react` `openresty`

- Increased the performance of the online algorithms cluster by 20% whilst reducing costs by 30%
- Negotiated platform vendor renewals worth several million dollars saving $650k/yr through consolidation and delivering significantly higher utility and developer productivity
- Significantly enhanced observability of the platform adding automated instrumentation to hundreds of services
- Led large initatives to modernize the algorithms platform and position it for future scale and agility
- Directly responsible for >$7m/yr in cost optimization

Twilio Inc. — Technical Lead

O-1 Visa | San Francisco | Dec. 2015 — Mar. 2021

`AWS` `Java 8` `PHP 5.6` `luajit` `chef` `lambda` `react` `Elasticsearch` `kafka` `MySQL` `openresty` `much more`

- Founded the Runtime team alongside an incredible Product Manager & Engineering Manager
- Repeatedly shipped flagship products at Twilio's Signal Conference such as the API Explorer, TwiML Bins, Debugger, Functions & Assets
- Architected and drove the successful launch of our SaaS Contact Center platform Flex
- Designed and implemented major parts of Twilio's Serverless stack
- Served as Tech Lead for launching NYC's contact tracing contact center
- Leader within Twilio's MySQL Guild working on Twilio's custom HA MySQL tooling
- Worked on the integration and customer migration of acquired Sao Paolo based startup Teravoz

iCracked Inc. — CTO

O-1 Visa | Redwood Shores | Oct. 2012 — Dec. 2015

`Linux` `GIT` `MariaDB` `Redis` `PHP 5.6` `Hack` `Sphinx` `AWS` `Twilio` `Nagios` `Munin` `react`

- First Engineer on the team; At time of departure was responsible for 70% of written code
- Developed majority of internal tools and processes
- Architected, deployed, and managed entire infrastructure after undertaking rewrite of original codebase (inherited from an outsourced offshore team)
- Expanded team from 2 to 14, critical role in 3 rounds of funding, helped grow company internationally and into new verticals

Five Media Marketing Ltd. — Lead Engineer

Jan. 2011 — Oct. 2012

`Linux` `GIT` `nginx` `MySQL` `PHP 5` `CodeIgniter` `JavaScript` `jQuery` `CSS3` `HTML5`

- Led launch of a major cloud sharing platform redesign
- Simplified software stack and optimized deployment strategy
- General maintenance, security auditing / patching
- Worked on other services including an automated captcha solver (for our visually impaired users), a new image sharing platform, and an ad optimization platform
- Enhanced usability with drag & drop and copy & paste uploading

TravelToro — CTO

Part Time | Late 2010 — June 2017

`Linux` `GIT` `Apache` `MySQL` `PHP 5` `Memcached` `JavaScript` `jQuery` `Crawlers` `Scrapers`

- Took over from remote off-shore engineering team, completed initial development
- Built parsers & crawlers to automatically and efficiently replicate content from a plethora of affiliates
- Led transition from shared hosting to managing a series of larger environments
- Provided guidance to growing development team to design & build new features

Spooshi Inc. — Founding Engineer

Apr. 2010 — Sep. 2012

`Linux` `PHP` `MySQL` `C++` `winapi` `winsock` `x86 assembly`

- Created fully self-service app-store like subscription platform
- Built custom forums and payment processing system with extensive analytics
- After integration, developers inherited anti-debugging and protection from cracking and redistribution
- Allowed developers to publish metrics which were automatically graphed in their subscribers dashboards