

Profile

Technical lead and engineer with ten years' experience in high-tech startups. Author or co-author of several large applications, including Monetate '11™, a website optimization tool used by dozens of IR500 retailers, and Newfield TrueCall™, a product in use by numerous cellular networks nationwide.

Seeks a position in a high technology firm. Proficient in Python, JavaScript, SQL, AWS, C, Ruby, & Perl.

Work History

- 2009- *Monetate · Conshohocken, PA* *Technical Lead · Senior Software Engineer*
- Led development and release of Monetate's next generation UI. This brought two critical changes: (1) a move from traditional jQuery/AJAX to a rich, in-browser application powered by Google Closure, and (2) a migration, in the core of the backend, from hard-coded Django models to heterogenous, typed data structures. These changes transformed the way customers and engineers use Monetate, such that the average client now runs 38 different, custom-built changes on their site at any point in time.
 - Trained new hires in Python, JavaScript, and Google Closure. Led the Monetate '11 team's growth from one to six engineers and mentored the team's current technical lead. Helped foster a culture where code review and testing became integral to the team's process, resulting in greater learning opportunities for all, shared responsibility, and better software.
 - Responded to operations on-call events, including Amazon's major EBS outage in spring of 2011, as an ongoing member of Monetate's operations team.
 - Led the reimplementing of Monetate's customer-facing analytics, which involved a move from an 8TB MySQL database to Hadoop & Elastic MapReduce, and an accompanying differential analysis. Trained the current technical lead of Monetate's data team; supported the team's further transition to Hive for ad-hoc reports.
 - Wrote, tested, and reviewed raw, cross-browser JavaScript that safely collects data and makes complex changes on numerous high-traffic, retailer sites.
 - Implemented an array of backend features, including JavaScript error reporting and filtering, haproxy monitoring and automated generation of response time percentiles, automatic scraping and importing of client sites' catalog data, and geolocation.
- 2008-2009 *Veritat Advisors · Philadelphia, PA* *Software Engineer*
- Lead developer for a financial planning service, implementing the public site, user signup, credit card processing, account pages, file upload, etc. with a team of two other developers.
 - Implemented Veritat's RoR deployment using EC2, nginx, haproxy, S3, and boto.
- 2001-2007 *Newfield Wireless · Berkeley, CA* *Programmer · System Administrator*
- Co-authored TrueCall™, a commercial, Python-based web and server application that provides statistical maps of mobile phone usage. Designed the TrueCall™ servers, which are deployed in > 20 cellular networks, and which serve > 2TB of call data each.
 - Wrote software and managed servers in support of scientists and engineers, in-house and at Verizon Wireless, AT&T, and T-Mobile, as Newfield grew from 5 to 30 employees.

Education

- 1999-2001 Deep Springs College Admissions Officer. Student Labor Commissioner.
- 2001-2003 University of California, Berkeley B.A., Classical Languages. Chair's Award.
- 2005-2006 University of Maryland, Balt. Co. Molecular Genetics, Cell Biology, Organic Chemistry.

References and a longer summary of technical experience are available on request.