

# Victor Quinn

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## Experience

### **SocialRadar**

*VP of Engineering*

**Washington, D.C.**

*September 2013 – Present*

- Leading the engineering team at SocialRadar, a startup specializing in location-based technologies.
- Architecting systems and ensuring applications are built to scale to millions of simultaneous users with sharding, caching, well-designed architecture, queueing with workers for asynchronous processes, and more.
- Managing engineers including building out a team, working to keep morale and retention up, maintaining a positive engineering culture, providing technical guidance, acting as a mentor, and leading by example.
- Rolling up my sleeves and jumping in with the team, committing code to anything that needed attention.
- Moved our backend architecture from monolith toward microservices, led frontend team to create a mobile SDK for iOS and Android, and helped build infrastructure for revolutionizing maps.

### **NGP VAN**

*Senior Software Engineer*

**Washington, D.C.**

*2012 – September 2013*

- Architecting and writing applications in Node.js and JavaScript. Building and documenting RESTful APIs for these apps, and having each app consume the APIs of the others and of other core systems within our company to build out a very powerful network of systems to handle interactions with the public.
- These applications have been deployed at scale across NGP VAN's large base of political clients including the high stakes/high load environment of the 2012 election across presidential, senatorial, and smaller races. They are used for tracking user interactions with the company's public facing products, for accepting data, for processing payments for contributions, and for performing analytics.
- Led projects with a team split, half in Boston, half in D.C. to greatly simplify API interactions, to move mechanics client-side where feasible using Backbone and Angular for greater separation of concerns, better, more snappy user experience, to move the team toward test driven development, and to centrally integrate multiple core internal backend systems
- Led a rewrite of the system for taking financial contributions, moving from very server-side heavy code to a powerful client-side single page app with rich interactions to process payments contributions and other CRM data which talked directly to a new REST API I designed onto the company's core financial database.

### **Amherst College**

*Web Programmer*

**Amherst, MA**

*2008 – 2012*

- Specialized in web development in PHP and JavaScript on a Drupal stack, tying into a MySQL database.
- Collaborated with a team of developers to create custom tools in order to allow faculty and staff to create rich content for education.
- As the User Interface expert on the team, focused on maximizing ease of use through interface design.
- Nature of the job required knowledge of the entire IT stack including servers, redundant backups, databases, storage solutions, uptime monitoring, and technologies like Apache and Linux server administration.

### **University of Massachusetts Amherst**

*Senior Developer and Backup Systems Administrator*

**Amherst, MA**

*2005 – 2008*

- Specialized in software design for internal processes including, but not limited to, web development, custom Windows application development, and other various scripting.
- As the Backup Systems Administrator, gained extensive knowledge on the entire server architecture.

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## Education

### **Western New England University**

*School of Law, Juris Doctor Degree*

**Springfield, MA**

*2007 – 2011*

- Attended part-time at night while working full-time as a computer programmer during the day

- As President of the Intellectual Property Law Association, organized multiple IP Law awareness events
- Course concentration in Intellectual Property Law including an Independent Study in Patent Litigation
- Awarded two CALI Excellence for the Future Awards for the Highest Achievement in Analytical Methods for Lawyers and Trademark Law

**University of Massachusetts Amherst**

**Amherst, MA**

*College of Natural Sciences and Mathematics, B.S. Physics and B.S. Computer Science*

*2001 – 2006*

- Completed Double Bachelor of Science Degree Program
- Served as a New Students Program counselor, helping ease student transition to the University and as a leader for the wilderness orientation program
- Member of the Computer Science Talent Advancement Program and a Computer Science program Mentor

## Programming Skills

**Infrastructures:** Expert knowledge of computers, including full IT backend. More than ten years of experience as a Linux systems admin and various DevOps technologies such as Chef, Ansible, and Docker.

**Computer Language Skills:** Expert in JavaScript (both Node.js and Browser), Go, SQL, and PHP, capable in  $\text{\LaTeX}$ , C, Python, Ruby, Objective-C (iOS), shell scripts, Lisp, etc. Loads of experience with MySQL, Postgres, Elasticsearch, MongoDB, Memcache, Redis, DynamoDB, RethinkDB, Couchbase, and other data stores. NSQ, SQS, and other queueing systems.

**Amazon Web Services (AWS):** Ton of familiarity with AWS offerings and cloud computing/deployment. Have set up multiple architectures with CI using Travis, CircleCI, and TeamCity to automate unit tests, code linting, deployment to AWS, etc.

**Cloud Services and Hosting:** Loads of experience using hosted services for developing and hosting large scale apps. SaaS experience includes setup/management/configuration/usage of Google Apps, FastMail, GitHub, Hipchat, Jira, Trello, and others. For deploying large scale apps, experience includes Linode, Rackspace, Heroku, Elastic Beanstalk, Opsworks, MailChimp and Mandrill, AWS and more.

## Open Source Projects

**Chance:** Created this library to help generate random things in JavaScript. Useful for the browser or Node.js for automated tests, stub data, etc. Now it's an organization with dozens of contributors and over 1600 stars on GitHub. <http://chancejs.com>

**Backbone.CrossDomain:** Created this plugin which is an AMD compatible drop-in replacement for Backbone's core sync function which extends it to allow CORS requests in IE7/8/9 which Backbone does not support out of the box for cross domain requests. <https://github.com/victorquinn/Backbone.CrossDomain>

**Dynasty:** Promise-based DynamoDB library for Node.js. Featuring very clean API. <http://dynastyjs.com>

**Batch Request:** Written to fill a need we had at SocialRadar to maximize data sent per packet to optimize our API for mobile usage, this Node.js library allows a single REST request to act as multiple in order to perform a batch without having to sacrifice RESTful principles. <http://batch-request.socialradar.com>

**Memcache Plus:** Better Memcache library for Node.js. When I did not find any of the existing Memcache libraries for Node to be good enough for my liking, I wrote my own. Features other memcache libraries do not have: request buffering, native promise support, elasticache autodiscovery included, and more. <http://github.com/socialradar/memcache-plus>

## Miscellaneous

**Author of Getting started with tmux:** I wrote a book on using tmux, a terminal application to help developers maximize their terminal productivity. Published by Packt Publishing. <http://vq.io/1x4Q5IC>

**U.S. Patent and Trademark Office:** Registered Patent Agent – Registration Number: 69321

**Other:** Avid outdoorsman and traveler. Motorcyclist who commutes daily on a Harley-Davidson. Hobbies include tinkering with emerging web technologies, video editing, graphic design, homebrew, craft beer, and the art of letterpress. Achieved the rank of Eagle Scout on January, 2000.

**Regular reader of:** HackerNews, EchoJS, Lobsters TheVerge, a16z, HighScalability, The Washington Post

**About Me:** I type with the Dvorak keyboard layout on a Kinesis Advantage keyboard while using Emacs as my primary tool to write code. I remap Control to Caps Lock to help me fly and I'm an efficiency junkie who is always looking for ways to improve my workflow. I'm passionate about a great many things in the world of computing, but a few of my favorites are databases, architecture, and clean API design.