Emily Ramesh

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TECHNICAL SKILLS

- **Proficient:** Python, Flask, Django, JavaScript, AngularJS, Node.js, Express, SQL, MySQL, Memcached, Websphere MQ, Perl, HTML5, CSS3, jQuery, Jira, Git, Unix, Vim, AWS (EC2)
- **Exposure:** ReactJS, PostgreSQL, SQLite, Oracle SQL, MongoDB, Webpack, Babel, Ruby, Rails, Shell Scripting

WORK EXPERIENCE

Second Opinion Health | Software Engineer | San Jose, CA   2016 - Present
- Developed clinical trial dashboard using AngularJS, Node.js and Express for study coordinators to manage and track clinical trial participants, optimizing record access speed of participant data by over 60%.
- Constructed automated data cleanup process to keep back-end storage under 3GB by identifying and purging expiring data with cron job developed in Python.
- Built automatic CSV report generation tool with Python and Parse backend-as-a-service to provide clinical trial patients ability to present aggregated and informed health records to doctors.

FriendFinder Networks | Software Engineer | Campbell, CA   2008 - 2016
- Implemented new conversation-based system design for internal messaging center that handled over 100,000 messages per day using object-oriented Perl, MySQL, Memcached, and MQ system broker.
- Reduced search latency to less than 1 second (120X faster) through redesigning user search, optimizing logic and indexing MySQL database columns in Perl.
- Created AB test utilizing Perl to track conversions on standard members reading and replying to messages with 3% winning result, leading to product-wide rollout of membership upgrade feature.
- Enabled SMS payment type for 4 European countries using Perl with Nexmo API integration which increased mobile revenue by 2% for UK and Australia.

Cisco Systems | Software Engineer | San Jose, CA   2000 - 2008
- Led team of 4 software developers in constructing web-based system using JavaScript, Perl and Oracle SQL to track inventory and configuration information of 8000+ servers in Cisco data centers around the world.
- Designed system to measure security compliance in IT hosting environment, enabling > 100 IT administrators to keep Solaris, Linux, and HP-UX servers compliant with SOX and configuration standards.
- Automated centralized tracking of server status and exception reports during major data center outages and downtimes, replacing manual checklist process to reduce downtime window by 70% with JavaScript and Perl.
- Provided searchable system to view AutoSupport messages, enabling system admins to quickly identify events leading up to outages on NetApp storage filers, accelerating issue resolution by up to 60% using Perl CGI.

EDUCATION

B.S. Computer Science, *University of California, Davis*

SIDE PROJECTS

Hangman | Software Engineer | live | code   2017
Classic hangman game where players receive a number of chances to guess a word letter by letter before the apples fall.
- Engineered gameplay using Python, Django, jQuery and HTML5 canvas elements deployed to AWS EC2.
- Built random word generator based on difficulty level by integrating Word API into Django server with SQLite.

Mile, Mile, and a Half | Software Engineer | live | code   2016
Social platform for hiking enthusiasts to create, view, and review local hiking events for planning large group gatherings.
- Implemented location page which details event location information including current weather and site map using Google Maps and Open Weather API.
- Designed database schema to store user, location, event, and review data in MySQL database.