

Charitha A. Sathkumara

Software Engineer

(818) 268-3529

charitha@sathkumara.com

<http://sathkumara.com>

Professional Experience

Bridg- Software Engineer

Data-driven marketing SaaS

April 2014 – Present

- Full-stack developer of a MEAN (MongoDB, Express.js, AngularJS, Node.js) application and its ecosystem
- Designed and implemented a Redistribute SDK in Node.js for both internal and customer use
- API and SDK documentation for both internal and customer use
- Software deployment and management using Docker and Amazon EC2 Container Service (ECS)
- NullSoft Installer System (NSIS) scripting to create MS Windows installers
- Designed and implemented NodeJS-based agent to find and retrieve data from customers' servers
- Designed and implemented a self-updater system for pushing updates to NodeJS agent using DynamoDB
- UI (templates, controllers, services, and directives) implementation in AngularJS, LESS, jQuery, and other libraries
- API engineering in Express.js (Node.js), Bookshelf ORM (MySQL), Mongoose ODM (MongoDB), Keen.IO, Kue (Redis)
- Javascript unit testing with Mocha and Chai
- Scripting for Unix Shell, Windows batch, Grunt builds, NPM, Docker, and more
- API implementation in Spring (Java), using Hibernate ORM (MySQL)
- Implemented a custom token based authentication system for the Spring API
- Designed and developed an HTML parser that scrapes data from emails
- Implemented an HTML parser that scrapes data from emails and FTP servers
- Developed a service to retrieve and parse data from FTP servers
- Developed a github hook to simplify testing of automated deployments
- Developed distributed computational tasks using Apache Storm and Kafka
- Queue-based worker implementation using Amazon SQS, Kue, and Kafka
- Google Go templating for dynamic configuration of HAProxy and Nginx
- Continuous Integration - frequent deployments to production environment

Doctorsoft Corporation- Software Engineer

Web-based Electronic Health Records (EHR) Application Vendor

June 2010 – June 2014

- Responsible for designing screens, user interfaces, UI components, servlets, REST services, and abstraction in Java for a web application.
- Designed and developed a NIST §170.302(r) compliant EHR Audit logging system using Elasticsearch and a forked build of Searchbox.io's Jest API.
- Designed and developed a cache system with request queuing to eliminate redundant RPCs.
- Designed and developed an extensible validation interface that ensures data integrity on the UI by enforcing field rules and screen-wide rules.
- Designed and developed smart asynchronous callbacks to increase web application reliability when used with unstable internet connections.
- Designed and developed an HTML5 Canvas based plotting system to graph abstract data sets for reporting purposes.
- Designed and developed an interface for communication of patient data with Practice Management Servers (PMS systems) using HIPAA compliant methods such as HTTPS and SFTP.
- Developed a modern webapp with technologies such as Hibernate, MySQL, HTML5, CSS3, GWT, jQuery, and Jetty.
- Implemented medical data storage, transfer, and generation using Health Level 7 (HL7) message format.
- Wrote Apache ant scripts for cleaning, building, compiling, and deploying.

California State Univ. Northridge- Technical Support Specialist
Technical Support Department for the College of Health and Human Development

August 2007 – June 2010

- Wrote scripts for backup, restore, printing management, user profile management, and various other tasks.
- Automated MS Windows installations by scripting Microsoft Windows Automated Installation Kit and other tools.
- Developed tools, shortcuts, utilities, and conventions for improving workplace efficiency.
- Managed a windows network with Microsoft Active Directory users, computers, and GPOs.
- Prepared and deployed workstations with both automatic and manual OS, driver, and software installs.
- Provided end-user technical support at staff offices, computer labs, in person, over the phone, and remotely.

Education

California State Univ. Northridge
Bachelor of Science, Computer Science

Graduation: December 2013

Coursework: Web Engineering, Embedded Applications, Database Design, Logic Programming, Senior Design Project

Projects: *Spotr*- A location based game that encourages physical activity, social interaction, and deals at local businesses. Originally developed as the class project for Senior Design, this Android application went on to winning awards at a competition.