

Charitha A. Sathkumara

Software Engineer

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Professional Experience

Bridg- Software Engineer

Data-driven marketing SaaS

April 2014 – Present

- Full-stack developer of a MEAN (MongoDB, Express.js, AngularJS, NodeJS) application
- API implementation in Express.js (Node.js) and Spring (Java)
- Implemented a custom token based authentication system for the Spring API
- Implemented an HTML parser that scrapes data from emails and FTP servers
- Developed distributed computational tasks using Apache Storm and Kafka
- Wrote Google Go templating code for dynamic configuration of HAProxy

Doctorsoft Corporation- Software Engineer

Web-based Electronic Health Records (EHR) Application Vendor

June 2010 – June 2014

- Implemented UIs, UI components, servlets, REST services, and abstraction with Google Web Toolkit (GWT).
- 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 on the UI to enforce field rules and screen 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, and more.
- 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.