Mathew Sprehn
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Skills

Proficient in: Java, Spring, C++, Python, MYSQL, Javscript, jQuery, HTML/CSS, Node.js
Technical: Agile Development, REST, Linux, Apache, Tomcat

Projects

Amazon Echo Bartender   June 2015

Bartender application that listens to voice requests about a particular mix drink, and provides the ingredients required in addition to the steps needed to make said drink. Done in Node.js

Amazon Echo Restaurant Recommender   June 2015

Restaurant application that listens to requests for a great place to eat. The app then polls yelp for highly reviewed, highly rated restaurants that are currently open nearby. A brief description of the location's genre is mentioned along with a "highlight" review of the location. Done in Node.js

Friendly Robot   Sept 2013

A Twitter bot that responds to users who call its Twitter handle, responding with a randomly inspirational quote of wisdom. Developed entirely in python, and uses Oauth to authenticate to the Twitter API.

Yelp Crawler   June 2013

A web crawler that iterates through restaurants posted on Yelp throughout the nation and harvests data from every page. Goes through pages efficiently without being detected and stores all information into a database.

Work Experience

EMC, Irvine, CA   Jan 2013 – Present

Software Engineer

- Lead the design and implementation of a RESTful web service using Java Spring for managing backups that exist in the cloud. The design allows the current product, competing products, or an independent unit to interface with the service as they see fit.
- Currently designing a generic and efficient product on compressing and sending backups to the cloud, with an emphasis on reducing operational costs in cloud.
- Designed and implemented a cache in C++ that reduced network requests during subsequent backups by over 90%.
- Revised build system for Windows, reducing compile time from 70 minutes to 10.
- Maintained and upgraded virtual machine cluster, resulting in improved configurability and availability of virtual machines on the cluster.
- Daily tasks include: Leading daily stand-up meeting, diagnosing and resolving bugs in customer environment,

IBM, Costa Mesa, CA   Jan 2012 – Dec 2013

Case Management Enablement Intern

Develop proof of concept applications on pre-release software that demonstrates the various new functionalities and backwards compatibility of the software to IBM sales team and IBM business partners, resulting in increased confidence and anticipation for the new product.

Education

University of California Irvine, Irvine, CA   Sept 2011 – Dec 2013

Bachelors of Science, Computer Science

Coursework Includes: Algorithms Analysis and Design, Project in Web Applications, Project in Software design, Project in Artificial Intelligence

Achievements Include: One year on the Dean's list for academic excellence

Mt. San Antonio Community College, Walnut, CA   Aug. 2008 - June 2011

Computer Science