

Lalith Vikram Natarajan

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Graduate student in Computer Science with 3 years of software development experience looking for a summer internship.

EDUCATION

State University of New York at Buffalo

Feb 2017 (Expected)

Master's in Computer Science and Engineering

Fundamentals of Programming Languages (CSE505), Analysis of Algorithms (CSE529), Information Retrieval (CSE535), Distributed Systems (CSE586)

CGPA: 3.58 / 4.0

Sri Krishna College of Engg. and Tech. - Anna University

May 2012

Bachelor of Engineering in Computer Science & Engineering

WES Evaluated CGPA : 3.52 / 4.0

RELEVANT EXPERIENCE

Krizda India Pvt. Ltd

May 2015 to July 2015

Software Developer

- Evaluated various technologies like OpenGL, Blender, Pillow, Sprite-spin and Three.js to create a custom 3D modeller for Augrav.com.
- Delivered an optimum solution using Blender and Sprite-Spin and hosted it using Flask.
- Proposed a new custom search solution using Apache Solr and worked on the prototype.

General Sentiment Inc.

December 2014 to July 2015

Software Developer

- Redesigned the consumer facing web application using Bootstrap 3 and Struts with the inclusion of a data visualization module for marketing analytics.
- Reduced the average response time of the application by over 20%.
- Assisted in upgrading the distributed system cluster used for the processing of real-time media data from Hadoop 1 to 2 by rewriting and optimizing a number of MapReduce jobs.
- Solved critical-production issues that occurred in the distributed database management system built on Cassandra.

Verizon Data Services India Pvt. Ltd.

August 2012 to November 2014

Software Engineer (Development)

- Collaborated with the OSP Engineering team on various GeoSpatial web applications based on Java.
- Modified the NG ICGS web application code to handle DB merge and .DGN migration changes.
- Optimized code for the Conversion/Conflation (of .dgn files) process and wrote scripts used to automate this manual process.
- Worked with the PRS team in developing business modules by interacting with clients.
- Spearheaded discussions on the Fiber Management application for the European region (based on Esri's ArcGIS and Spring).
- Built the FM application architecture using Spring and coded multiple modules using Java and jQuery.
- Also assisted in the spatial web application development using Oracle Spatial and ArcGIS built on top of the Dojo framework.
- Solved 300+ issues during deployment and routine testing on all these applications and Mentored a small team and supervised their work.

PROJECTS

Incident Search on Social Media

December 2015

- Designed a web-based search system to retrieve incident specific information from social media by grouping the influencers, topics and places and thus provide a holistic view to the user. Performed content tagging, faceted search and cross-document analytics on data to achieve this.
- Used Apache Solr, Stanford NER to index and tokenize data and implemented this on the Ruby on Rails framework with jQuery.

Visual Speech Synthesis

April 2012

- Compared and implemented the two concepts of speech synthesis - morphing visemes and geodesic interpolation of visemes.
- Generated a custom face from a stationary image by Optimized the algorithms used and designing the user interface.

SKILLS

Core Java, J2EE, jQuery, Spring MVC, Struts, Java Design Patterns, PL-SQL, Hadoop, Shell scripting, Python, Solr, TLA+, Bootstrap, HTML 5 & CSS 3, JSON, Git, Eclipse, Vim, Microsoft Office, Photoshop, LaTeX, Unix, Windows, OS X