**Hanisha Thirtham**

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**SUMMARY**

* Full Stack Developer skilled in MERN Stack and Apache Kafka.
* Over 3 years of experience with Oracle E Business Suite using PL/SQL in a fast-paced cross layer environment, developing and delivering multiple end-to-end applications simultaneously within tight deadlines.
* Solid understanding of data structures, algorithms and operating systems concepts.

**EDUCATION**

San Jose State University San Jose, CA, USA

*Master of Science: Software Engineering* Fall 2017-Present

SASTRA University Tamil Nadu, India

*Bachelor of Technology, Computer Science Engineering* ***GPA: 8.02/10*** July 2009 - May 2013

**TECHNICAL SKILLS**

* Software Languages: JavaScript, Node.js, Java, React, HTML/CSS, XML, JSON, JSX, Bootstrap, PL/SQL, C++
* Software Tools: Eclipse, Webstorm, MySQL Workbench, JMeter, GitHub
* Frameworks: Express, ReactJS, Apache Kafka
* Cloud Technologies: AWS EC2, AWS Beanstalk
* Database Technologies: MySQL, MongoDB, AWS RDS
* Operating Systems: Windows, Linux

**PROFESSIONAL EXPERIENCE**

**Tata Consultancy Services**  **Software Development Engineer** **August 2013 – Nov 2016**

**Project Name**: Xerox Offshore Development Project

**Platform/Technology used**: Oracle E business suite (Enterprise Resource planning (ERP) tool)

* Learned the requirements of the client and mapped the business requirements into system functionality.
* Trained the potential resources on the functional and technical aspects of the application.
* Implemented a report generation module which saved 20 man-hours a week by eliminating the manual parsing of data.
* Automated the health analysis of the modules which logs the failure reason and notifies the concerned managers of the modules thereby reducing the turn-around time to identify and fix issues.

**ACADEMIC PROJECTS/INTERNS**

**Dropbox**

* Developed an online file storage and sharing application that can perform ‘Dropbox’ like operations, with features including but not limited to file uploads, downloads, creating directories, files and folder sharing with the other users of Dropbox.
* Functionalities implemented include session management, delegated authentication and implementing a connection pooling algorithm.
* Client side was developed using ‘React’, server side using ‘Node.js’ and ‘Express’ with database as MongoDB.
* Application was tested using JMeter for performance and Mocha for API testing.

**Kayak application**

* Developed a three-tier distributed system architecture that implements a travel search engine with different options to choose from flights, hotels, rental cars and user can select and book a trip from wide options available.
* Implemented stream processing and log monitoring using Kafka.
* The first tier is the client tier where the user interacts with the application which was implemented using React and Redux. The second tier is the middleware which is implemented using message queues. The third tier comprises of the databases MongoDB and MySQL which are used simultaneously based on the user action.
* Application was tested using JMeter for performance and Mocha for API testing.

**Implementation of a Firewall in Virtual Internet Router**

* Implemented a firewall on functional internet router where packets which reach the application servers are controlled through the router.
* The packets are admitted based on predefined set of rules and the firewall entries are constantly monitored using firewall log files to ensure accuracy.
* The firewall and the internet router were implemented using C++. Wireshark and TCPdump were used to analyze the traffic and verify the functionality of router and firewall.

**Minimizing the effects of “Black hole” in wireless sensor networks**

* Proposed and studied a new algorithm to implement an effective mechanism to minimize the insider attack which is well known as “Black hole” in wireless sensor networks.
* A solution to mitigate the “Black hole” effects was implemented in Network Simulator 2.33 using the AWK Programming and Tool Command Language.

**RELEVANT COURSE WORK**

Algorithms, Data Structures, Object Oriented Programming, Enterprise distributed systems, Enterprise software overview

**AWARDS/HONORS**

**Professional**

* Recipient of Best Idea of the Year (Idea MAX) award at Tata Consultancy Services for proposing and implementing an idea that reduces the effort and the money spent by the client.
* Recipient of Technical Excellence at TCS for my technical competence in PL/SQL programming.
* Recipient of ON THE SPOT appreciation award for proactive documentation of modern technologies introduced to the production environment.
* Recipient of Certificate of Appreciation from the client, Xerox, for my effort in developing its Billing software product.

**Academics**

* Awarded the prestigious Pratibha award (which is awarded to the toppers at the state level) by then Chief Minister of Andhra Pradesh.