Suhash Bollu

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EDUCATION

University at Buffalo, The State University of New York *Buffalo, NY*
Master of Science in Computer Science *August 2019 – February 2021*
- Data structures and Algorithms ● Distributed Systems ● Object Oriented Design ● Data Models and Query Languages
- Data Intensive Computing ● Information Retrieval ● Machine Learning ● Computer Vision and Image Processing

SASTRA University *Tanjore, India*
Bachelor of Technology *June 2013 – April 2017*

TECHNICAL SKILLS

Languages: Python, Java, C/C++, Shell Scripting
Database: MySQL, Oracle, MS SQL, MongoDB
Web Technologies: JavaScript, Node.js, React, Redux, HTML, CSS
Other Technologies: Git, Linux, AWS, Azure, Spring Batch

EXPERIENCE

Tata Consultancy Services *Bangalore, India*
Software Developer *June 2017 - August 2019*
- Worked closely with software development and testing team members to design and develop robust solutions to meet client requirements for functionality, scalability and performance.
- Developed Web Service Clients using Java API for XML Web Services (JAX-WS) to interact with a SOAP based Web Service as a part of developing Real-Time Communication Service.
- Wrote maintainable code for batch processing system using Java and Spring Batch Framework to automate bulk data processing and transfer from CRM database to Linux Server.
- Devised a new application to automate the manual work done for audit and reconciliation of periodic data, thus reducing man-hours by 3 hours per day.
- Performed regression and system-level testing to verify software quality and function prior to release.

PROJECTS

Cross Platform Mobile Application Demo
React-Native, Redux, Node.js, MS SQL, AWS
- Designed, documented and developed a Cross Platform Mobile Application adhering to SDLC process.
- Implemented token based login authentication, Facebook login authentication using OAuth, Push notifications, Payments using Stripe, and Chat.

Burger Builder Website Live URL
React, Redux, Firebase
- Developed a web application using React Frontend library and Firebase(BaaS) as Back End, which simulates online burger delivery application.
- Used Redux for state management, Firebase Authentication service and Firebase Realtime Database as noSQL database.

Amazon Dynamo styled Distributed Key-Value Store GitHub
DISTRIBUTED SYSTEMS - Java, Socket Programming, Android
- Developed a simplified version of Amazon Dynamo styled distributed key-value storage.
- Used quorum based replication with object versioning to provide linearizability and availability at the same time under failures.

Image Processing GitHub
COMPUTER VISION - Python, Numpy
- Applied gaussian filter to smooth an image with salt-and-pepper noise, Implemented Normalized Cross Correlation algorithm to find a patch in an image.
- Stitched two images to create a panoramic view, using Harris Corner detector for finding key points and SIFT for matching key points from other image.

VOLUNTEERING

Education Support - STEM Mentor *January 2020 - May 2020*
- Guided students through hands-on STEM activities at Westminster Community Charter School, Buffalo, NY.