Suhash **Bollu**

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Summary

A graduate student in computer science seeking full time opportunities, with solid knowledge in computer science fundamentals and two years of industrial experience in software development. Looking forward to perform ingeniously and take on demanding challenges.

Education

University at Buffalo, The State University of New York | CGPA 3.62/4.0   *Buffalo, NY*
Master of Science in Computer Science   *August 2019 – February 2021*

Relevant Courses : Data structures & Algorithms | Distributed Systems | Object Oriented Design | Data Models & Query Languages

Information Retrieval | Data Intensive Computing | Machine Learning | Computer Vision & Image Processing

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

Skills

Programming	Java, Python, C/C++
Web	HTML, CSS, BootStrap, JavaScript, Node.js
Database	MySQL, MS SQL Server, MongoDB, Oracle
FrameWorks	ReactJS, React-Native, Spring Batch, Apache Spark, Hadoop
Tools & Cloud	AWS, Azure, Git, SVN, Linux

Experience

Tata Consultancy Services Ltd   *Bengaluru, India*
Systems Engineer   *June 2017 - August 2019*

- 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.
- Developed Batch Applications using Java and Spring Batch Framework for automating bulk data processing and transfer from CRM database to Linux Server.
- Developed shell scripts for launching batch jobs on Linux Server and wrote cron expressions for scheduling them.
- Engineered an internal application using Java to automate the manual work done for audit and reconciliation of periodic data, thus reducing man-hours by 3 hours per day.
- Led a team of 4 in developing a Point-Of-Sale application based on MVC architecture using C++, Oracle database and Pro*C (Embedded SQL) following agile methodology.

Projects

Cross Platform Mobile Application

React-Native, Node.js, MS SQL Server, AWS   *Demo*

- 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.

Amazon Dynamo styled Distributed Key-Value Store

DISTRIBUTED SYSTEMS - Java, Socket Programming, Android   *GitHub*

- 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.

Group Messsenger

DISTRIBUTED SYSTEMS - Java, Socket Programming, Android   *GitHub*

- Developed an android application that enables devices to exchange and store messages in local key-value storage, providing total and FIFO ordering guarantees.
- A device b-multicasts every entered message to every device including itself handling at most one node failure.

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.