

**EDUCATION**

- **Master of Science, Computer Science, University at Buffalo** *Aug 2018 - Feb 2020*
- **Bachelor of Engineering, Information Technology, University of Mumbai** *Aug 2014 - Jun 2018*

**PROGRAMMING SKILLS**

- **Software:** Python, C/C++, Java, C#, ASP.NET, .NET Core, MEAN stack, JavaScript, CSS, HTML5
- **Database/ Cloud:** MS SQL Server, MySQL, MongoDB, Azure, Docker, Hadoop, Spark, Git, Linux, Jupyter Notebook

**WORK EXPERIENCE**

- **Software Engineer 2, Juniper Networks Inc, Sunnyvale, CA** *May 2020 – Present*  
Working as a Software Engineer in the vBX team to develop a SystemC simulator for the BX chip.  
Used SystemC/C++ to develop new features and improved speed of the simulator.  
Developed Python and C++ tools to facilitate development of ASIC simulator.
- **Software Engineer, LeanTaas, San Jose, CA** *Feb 2020 – April 2020*  
Worked as a Software Engineer in the Data Engineering team on the iQueue for Infusion product.  
Created backend APIs and services using Java and Scala to represent hierarchical relationships.  
Implemented data processing scripts using Python for healthcare customers all over the US.
- **Software Engineer Intern, Sodexo, Buffalo, NY** *Jun 2019 – Dec 2019*  
Data archival enhancement to existing .NET core application thereby reducing query time by 40%.  
Automated the Azure deployment process for Retail Ranger infrastructure using ARM templates

**PROJECTS**

- **Simple Dynamo Database**  
Distributed key-value storage system that provides both availability and linearizability via consistent hashing and chain replication and failure handling in Android using Java.  
Effectively handled concurrent read and writes to the system even under failures while ensuring that every read returns the most recent write.
- **Movie Store E-Commerce Application**  
Implemented application using .NET, Entity Framework backend and Angular framework frontend  
Created and consumed REST API's for basic operations like creating, updating, reading movies and orders.  
Shopping cart feature implemented for application with ability to create and process orders.
- **Large scale Text processing with Hadoop Map Reduce and Apache Spark**  
Performed word count and word co-occurrence on data extracted from Twitter, NYTimes API and Common Crawl.  
Used MapReduce for this computation and Tableau to visualize the results.

**PERSONAL PROJECTS**

- **Distributed Hash Table based on Chord:** Multiple Android devices form a Chord ring and serve insert, query and delete requests in a distributed fashion.
- **Exploratory data analysis in R:** Goal was to extract, process and visualize data in R.
- **CRUD App using Node.js:** Basic CRUD application using Node.js and MongoDB using MEAN stack.
- **Digit Recognition using Ensemble Classifier:** Implemented logistic regression, SVM, Neural Networks for prediction of digits from images.
- **Banking Account Project:** Effectively handled creation of new checking and savings accounts
- **Twitter Bot in Python:** Post tweets to Twitter using Tweepy and BeautifulSoup.
- **Football Blog App:** Implementing blog app using Django and Python.

**RELEVANT COURSEWORK**

Analysis of Algorithms, Data Intensive Computing, Introduction to Machine Learning, Distributed Systems, Advanced Machine Learning, Computer Security  
Data Structures, Databases, Object Oriented Programming, Operating Systems, Computer Networks

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