Saurabh Anant Mhatre

smhatre@ncsu.edu

Raleigh, NC | 919-522-5181 | thesaurabhmhatre.github.io | github.com/theSaurabhMhatre | linkedin.com/in/saurabh-mhatre-2a7949104/

EDUCATION

Master of Computer Science, Anticipated May 2021

North Carolina State University, Raleigh, NC – GPA: 4.0/4.0

Relevant Coursework: Design and Analysis of Algorithms, Object Oriented Design and Development, Software Engineering, Database Management Concepts and Systems, Automated Learning and Data Analysis, Human Computer Interaction

Bachelor of Engineering in Computer Engineering, May 2017

Vidyalankar Institute of Technology - Mumbai University, Mumbai – CGPA: 8.81/10.0

TECHNICAL SKILLS

Languages:	Java, JavaScript, Ruby, Python, C
Web technologies:	HTML, CSS, AngularJS, React, React Native, jQuery, Ruby on Rails
Databases and Cloud:	Oracle, MySQL, Couchbase, Firebase
Frameworks:	Spring Boot, Drop Wizard, Hibernate, Android, Struts 1.x

WORK EXPERIENCE

Software Engineer Intern, LinkedIn Corporation, Remote Internship   May 2020 – August 2020

- Designed and developed a **scalable** solution to support quick lookup of various entities for a caching service using **Couchbase**
- Achieved approximately **50%** reduction in latency for existing use cases by leveraging **NoSQL** Global Secondary Indexing
- Programmed highly **modular** components for implementation of design with appropriate unit tests using **Mockito** and **TestNG**

Assistant System Engineer, Tata Consultancy Services Limited, Mumbai   September 2017 – June 2019

- Managed integration and maintenance of services with Box API endpoints by utilizing Box Java Software Development Kit
- Improvised the working of a legacy content management application through various enhancements and **bug fixes**
- Collaborated with **DevOps** for building **continuous integration and continuous deployment** pipelines for various services
- Developed **REST API** endpoints for internal projects leveraging frameworks such as **Hibernate**, **Drop Wizard** and **Spring Boot**
- Delivered a **POC** application allowing custom forms to be built and responses to be recorded and downloaded for internal use
- Facilitated creation of forms through a combination of six types of form fields i.e., text boxes, check boxes, radio buttons, etc.

PROJECTS

Ask Me Anything – Java, AngularJS Web Application

- Constructed a website to facilitate users features to ask questions and answer questions asked by other users
- Created a **responsive UI** using **Bootstrap** and secured API endpoints using database backed **Basic Authentication**
- Devised a mechanism to ensure the most popular questions and/or answers always appear at the top of results
- Implemented privilege level access to allow only signed in users to ask/answer questions and/or up-vote questions and answers

Travel Emergency Response System – Android Application

- Conceptualized and programmed a prototype application to permit travelers to search for garages and avail services
- Implemented an **OTP mechanism** to address security concerns by generating 8-character random codes for every user request
- Integrated **Firebase Cloud Messaging** APIs for communication between user and service provider devices over the Internet
- Incorporated **Google Maps** APIs for showing a user's location with respect to available garages within a two-mile radius

Expertiza - Ruby on Rails Web Application, Open Source Project

- Contributed to an **Open Source Project** used for course management and peer reviews at North Carolina State University
- Analyzed assignment creation module and allowed drop topic deadlines to be associated with topics within assignments
- Leveraged an open source **job scheduler** written in Ruby to schedule jobs for dropping waitlists for topics after deadlines
- Augmented the process of creation of weighted questionnaires of various kinds and created **automated tests**

Smart Weather Application – React Native Application

- Constructed a **cross-platform** application which utilized **GPS** to display local weather conditions along with 24-hour forecast
- Created a simple recommendation module to provide clothing and accessory suggestions according to weather conditions
- Programmed a feature to allow for broadcast of **emergency notifications** as well as **promotional notifications** to users

Library Management System - Ruby on Rails Web Application

- Implemented a system to allow books to be added to various libraries belonging to universities from a central repository
- Configured the application to send **email notifications** regarding the status of books requests, availability, and overdue fines
- Integrated **social login** and account creation via Google accounts using **OAuth** standard