

# SAURABH ANANT MHATRE

2103 B Gorman Street, Raleigh, NC 27606 | 919-522-5181 | smhatre@ncsu.edu  
thesaurabhmhatre.github.io | github.com/thesaurabhmhatre | linkedin.com/in/saurabh-mhatre-2a7949104/

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## 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, Database Management Systems, Software Engineering, 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

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## TECHNICAL SKILLS

Languages - Java, C, Python, Ruby

Web technologies - HTML, CSS, JavaScript, AngularJS, jQuery, Ruby on Rails

Databases and Cloud - Oracle, MySQL, Firebase Cloud Messaging

Frameworks - Spring Boot, Dropwizard, Hibernate, Android, Struts 1.x

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## WORK EXPERIENCE

**Assistant System Engineer, Tata Consultancy Services Limited, Mumbai**

September 2017 – June 2019

- Engaged in weekly **Agile** meetings and discussions with customers to understand requirements and propose solutions
  - 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 / continuous deployment** pipelines for various services
  - Developed **REST** API endpoints for projects leveraging frameworks such as **Hibernate, Dropwizard** and **Spring Boot**
  - Delivered a **POC** application allowing custom forms to be built and responses to be recorded and downloaded
  - Facilitated creation of forms using a combination of six types of form fields through a completely responsive web page
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## PROJECTS

**Ask Me Anything – Dropwizard, 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 like mechanism to ensure the most popular questions and/or answers always appear at the top of results
- Designed a privilege access to allow only authenticated users to ask/answer questions and 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 random codes for every user request
- Integrated **Firebase Cloud Messaging** APIs for communication between user 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 topic within assignments
- Leveraged an open source job scheduler, **Sidekiq** 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**

**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 requests, availability and overdue fines
- Integrated **social login** and account creation via Google accounts using **OAuth** standard

**Study Buddy – Android Application**

- Programmed an Android application to enable students to keep a track of weekly schedules and assignments
- Created a **task manager** cum **schedule tracker** to allow creation, deletion and modification of tasks by subjects
- Configured the application to **notify** users of daily submissions and display a weekly view of pending tasks