Sanveg Rane

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EDUCATION

NORTH CAROLINA STATE UNIVERSITY GPA: 4.00/4.00
Master's in **Computer Science,** Anticipated Graduation - May 2021
Courses: Design and Analysis of Algorithms, Object Oriented Design and Development, HCI, Database Management Systems

K.J. SOMAIYA COLLEGE OF ENGINEERING, UNIVERSITY OF MUMBAI CGPA: 8.41/10.0
Bachelor of Engineering, **Computer Engineering,** May 2017
Courses: Advanced Algorithms, Data Structures, Operating Systems, Distributed Databases, Web Technologies, Compiler Construction, Computer Networking, Object-Oriented Programming, Software Engineering, Data warehousing and Data mining

SKILLS

LANGUAGES: Java, Python, JavaScript, C++ (beginner), Ruby, Bash, HTML / CSS, PHP, SQL
FRAMEWORKS: J2EE, Spring MVC, JPA, Spring Boot, Hibernate, Django, Node.js, Express.js, Angular, Bootstrap, Ruby on Rails
CONCEPTS: OO Principles, Web services, Multi-threading, Problem solving, Design Patterns, Micro-services, JSON, REST
TOOLS: Git, GitHub, Heroku, AWS, Docker, Jira, Linux OS, Android Studio, NoSQL, MongoDB, Oracle, JUnit, PL/SQL

EXPERIENCE

Software Engineer Consultant – Morgan Stanley (Mumbai, India) June 2017 – July 2019

- Analyzed, structured and delivered reliable software solutions by collaborating with cross-functional teams for multiple domains
- Developed a **scalable and configurable Web framework** with Java based Spring, JavaScript, Angular and SQL, used by development teams to create customizable web applications to deliver large scale accounting information seamlessly
- Designed and deployed a Reporting application with Java, Python and MongoDB to generate daily reports on Client Transactions
- Facilitated **faster response times** of data-intensive APIs by optimizing fragments of code, leveraging concurrency and threading
- Implemented Server-Side Caching utilizing Hazelcast library to improve performance of web applications
- Key player in all aspects of the software development lifecycle, from requirement gathering to production deployment

Application Developer Intern – ForBinary Technologies (Mumbai, India) May 2016 – July 2016

- Mobile application development - devised an **Android application** based on Java, to improve customer relations by implementing message broadcasting, information sharing, reporting and multiple language support features
- Designed and coded an innovative framework using Java to **create customized applications** as per client requirements
- Utilized Retrofit for REST API calls and managed data objects for caching in SQLite using GreenDAO
- Volunteered for project demonstration to potential clients with feature presentations

PROJECTS

NOTIFY-ME WEBSITE - Web Application to **monitor product price on ecommerce website** to deliver best prices for users

- Software development - developed web application with functionalities to read a webpage mark up and locate name, price, availability of product displayed on web page and a **scheduler** in spring to keep tracking products prices on certain intervals
- Extracted product information using x-paths and HTML DOM parsing using Java libraries such as JSoup.
- Leveraged Spring Boot to construct backend supported by MySQL with Angular and TypeScript to build the User Interface

EXPERTIZA (OPEN SOURCE CONTRIBUTION) – **Rails** Project to create **reusable learning objects** and facilitate peer reviews

- Integrated a module to assign weights on questions in an assignment and score computation considering the weights
- Fixed an issue related to handling of drop topic deadlines for assignments with a staggered deadline

LEXI VOTE – Android application to **assist young voters** of America in election process – **Lexis Nexis Hackathon 2019**

- Developed an application with features such as chatbot assistant and data charting to encourage election participation
- Demonstrated time management and effective product delivery in cooperative team environment

SMART STICK FOR VISUALLY CHALLENGED - Walking stick connected to **Android application** which detects potholes and obstacles, provides voice-based navigation and gesture detection; to **assist visually impaired people** in commuting

- Devised algorithms to **detect potholes and obstacles** using ultrasonic sensors and Arduino
- Received appreciation award from college for valuable contribution to the society
- **Managed workload distribution** amongst teammates and used Trello for task creation

COURSE TRACKER – Python script to **track enrollment status** of courses on college website and notify interested students

- Hobby Project – coded a python script to automate checking availability status of various courses on NCSU website using Python
- Utilized MongoDB to store and update information extracted from website to optimize data retrieval
- Deployed on Heroku to enable students enroll into the courses of their interest by efficiently tracking multiple courses