Harshal Jaiswal

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Education

Master of Science, Information Systems	Expected - May 2023

Northeastern University, Boston, USA
Relevant Courses: Programming Structure & Algorithms, Network Structures & Cloud Computing, Web Development tools & methods, Application Engineering Development

Bachelor of Engineering, Computer Science	May 2019

RTM Nagpur University, Nagpur, India
Relevant Courses: Object-Oriented Programming, Software Engineering, Database Management Systems, Engineering Mathematics, Data Structures, Design and Analysis of Algorithms, Artificial Intelligence, ML

Technical Skills

Programming Languages: Java, JavaScript, HTML, CSS, Python, SQL, C
Database: MySQL, PostgreSQL, Firebase, S3
Technologies: Android, Flutter, React, Redux, Node.js, Loopback, Selenium, Git Actions, AWS
Libraries: Numpy, Pandas, Matplot-lib, Scikit Learn, Tensorflow

Work Experience

Founder & Lead Developer ([Festive](#), [PlayStore](#)**)**

Turing Tech, Nagpur, India   Jul 2020 - Aug 2021
- Built e-commerce application 'Festive' with **React Native** from scratch with serverless backend deployed on **Firebase** and more than 200+ downloads on Google Play Store within a 2 weeks span
- Developed an online academy android app for organizing courses and materials to handle more than 200 students with Google as well as **OTP Auth login** utilizing **React Native & Firebase** as a cloud platform

Software Engineer   Jul 2019 - Aug 2021

GlobalLogic, Nagpur, India
- Resolved screen alignment defects in the **Java android** app of top US medical device client of GlobalLogic
- Improved **unit test case**s to increase class coverage above 85% of client's android application in Java
- Migrated legacy code to **ReactJS** (JavaScript) for scheduling and e-rostering software
- Created **Python selenium** script to validate 54% migrated JavaScript functions to minimize manual testing
- Devised 10 plus POCs for replicating web apps similar to Goole calculator, weather & news using **ReactJS**

Software Developer Intern   Jan 2019 - May 2019

Grhapa Services & Solutions Pvt Ltd, Nagpur, India
- Engineered backend **REST API** requests to return suitable JSON format data using **Loopback** and **Node.js**
- Executed queries on **PostgreSQL** & created APIs to return nearest geo-location comparing two users table
- Designed stored procedure for performing a 14% faster full-text and phrase search in database to get input keyword results utilizing **Tsvector**
- Designed a function for performing **Firebase** group **notification** to deliver precise notifications to user group

Academic Projects

Blood and Organ Transplant Management System (Java, Swing, Firebase) [Github](#)   Nov 2021 - Dec 2021
- Developed Java application for Hospital, Donor Bank, Logistics and Labs to manage blood and organ transplantation with real-time request matching, mail notification & provided analytics of data
- Formulated a total of 20 complex work requests within 4 enterprises and 10 organizations of system implementing **singleton design pattern**

Obscure Natural Language Sorting (Java, Algorithms) [Github](#)   Nov 2021 - Dec 2021
- Implemented **MSD Radix Sort** for 1 million Chinese character names and compared it with other sorting methods and conducted benchmarking to prove MSD Radix is ~29% more efficient than others

Car Price Predictor Using Machine Learning (Python, Scikit Learn) [Github](#)   Oct 2018 - Dec 2018
- Predicted costs of used cars with data of over 3 Lac different cars using **Scikit learn** library in python applying Linear, Random Forest, and Decision Tree Regressor with RMSE score within a range of 2500