

# 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, MongoDB, S3, DynamoDB, RDS

**Technologies:** Android, Flutter, React, Redux, Node.js, Spring MVC, Hibernate, Github Actions & Workflow, Packer

**AWS Services:** IAM, EC2, CloudFormation, VPC, Route 53, CloudWatch, Lambda, ELB

**Libraries:** Numpy, Pandas, Matplotlib, Scikit Learn, BeautifulSoup, Tensorflow, Selenium, OpenCV

## Work Experience

### Turing Tech, Nagpur, India

Jul 2020 - Aug 2021

Founder & Lead Developer

- 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

### GlobalLogic, Nagpur, India

Jul 2019 - Aug 2021

Software Engineer

- Resolved screen alignment defects in the **Java android** app of top US medical device client of GlobalLogic
- Improved **unit test cases** 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 Google calculator, weather & news using **ReactJS**

### Grhapa Services & Solutions Pvt Ltd, Nagpur, India

Jan 2019 - May 2019

Software Developer Intern

- 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

### Cloud Lens - Cloud image storage service (Node.js, EC2, S3, RDS)

Feb 2021 - Present

- Deployed **Node.js** application on AWS with fully automated CI/CD pipelines for code build, deployment using **Github Actions & Packer** to build AMI & also launch EC2 instance using the **CloudFormation** template

### Blood and Organ Transplant Management System (Java, Swing, MySQL)

Oct 2021 - Dec 2021

- Developed Java application for Hospitals and donor Donor Bank to manage blood and organ transplantation with **real-time request matching** & provided analytics of data implementing **MVC design pattern**

### Obscure Natural Language Sorting (Java, Algorithms)

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 efficient than others in range of 10%-60%

### Car Price Predictor Using Machine Learning (Python, Scikit Learn)

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