

# Niharika Deshmukh

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## EDUCATION

### University at Buffalo, The State University of New York

Buffalo, NY

*Master of Science in Computer Science. GPA - 3.71/4*

*Aug. 2022 – Expected Dec. 2023*

*Courses: Distributed Systems, Database Systems, Analysis of Algorithms, Blockchain, Reinforcement Learning*

### College of Engineering Pune

Pune, India

*Bachelor of Technology in Computer Science. GPA - 7.15/10*

*Aug. 2016 – May 2020*

*Courses: Data Structures, Operating Systems, Computer Networks, Artificial Intelligence, Web Services And Technology*

## TECHNICAL SKILLS

**Languages:** Java, Python, C, C++, SQL, GoLang, JavaScript, Solidity, HTML/CSS

**Frameworks:** React, Node.js, Angular, JUnit, SpringBoot, CodeIgniter

**Software and Tools:** Git, Docker, Visual Studio, PyCharm, IntelliJ, Eclipse, Elasticsearch, Grafana, Kafka, Jenkins

**Libraries:** pandas, NumPy, Matplotlib

**Databases:** MySQL, MongoDB, PostgreSQL, Redis

## EXPERIENCE

### OYO Rooms

Bangalore, India

*Software Development Engineer I*

*Aug. 2020 – July 2022*

- Led the development of a color coding feature in internal wallets using Java, enabling instant wallet refunds for customers, resulting in a 65% improvement in average refund turnaround time.
- Collaborated with four cross-functional teams to integrate the Stripe payment gateway into payments microservice leveraging Java, enabling seamless payment processing through virtual cards and card terminals.
- Spearheaded an initiative for a comprehensive revamp of a Java-based payments microservice, focusing on optimizing p99 of a booking creation API and reducing booking failures by 10%.
- Automated ticket assignment and email notifications within a Java Springboot application for ticket management, improving a first response time and eliminating manual intervention in ticket assignment.
- Engineered REST APIs to onboard users on a ticketing tool for streamlining tool adoption as a part of a cost-cutting project leading to an easy adoption and saving \$50000 per year.
- Executed a stability initiative by configuring liveness and readiness probes to enhance health checks and by integrating APM for better debugging and monitoring across 20 Java microservices.

### VidarthiMitra

Pune, India

*Intern - Web Developer*

*May 2019 – July 2019*

- Developed a highly optimized rank predictor querying complex data sets within seconds to predict a suitable college for a particular student based on his/her marks, college, gender, caste, and preferences in Python and PHP.
- Built and launched three user-friendly app landing pages for VidarthiMitra using HTML and CSS.

## PROJECTS

### Taco-DB | Cpp

Feb. 2023 – May 2023

- Created a single-threaded Relational Database Management System in bottom-up methodology.
- Implemented crucial components of RDBMS including file interface, buffer manager, schema, record layout, data layout, access methods, heap file(table interface), b-tree index, query processing, and query optimization.

### Decentralized Domain Name Marketplace | Solidity, ReactJS, AntDesign, Figma

Feb. 2023 – May 2023

- Developed an ERC721-compliant decentralized application on a blockchain network for managing domain names.
- Designed a feature to tokenize domain names for simple ownership transfer and added features to list domain names for sale and auction, giving users access to a decentralized marketplace for domain name transactions.

### Fault-Tolerant Distributed Key-Value Storage | GoLang

Aug. 2022 – Nov. 2022

- Built a reliable distributed key-value storage system. Implemented the Raft Consensus algorithm to elect leaders and replicate logs, achieving consensus in leader election and log replication for a system consisting of five nodes.