

# Pranav Khismatrao

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## EDUCATION

### Master of Science, Software Engineering Systems

Expected May 2024

Northeastern University, Boston, MA

### Bachelor of Engineering, Computer Software

Oct 2020

Mumbai University, India

## TECHNICAL SKILLS

**Programming/Scripting Languages:** Java, Python, JavaScript, Unix Shell, HTML, XML, CSS

**Database:** MySQL, Aerospike, MongoDB, Redis, PostgreSQL

**Frameworks and Technologies:** Spring Boot, Micronaut, OAuth, JWT, Hibernate, RabbitMQ, Node.js, Elasticsearch, REST, Gradle, Maven, Git, Junit, React.js, Servlet, Microservices, Apache Kafka, Linux, Jenkins, Docker, Kubernetes, AWS, CI/CD

## PROFESSIONAL EXPERIENCE

### Tata Consultancy Services, Mumbai, India

Jan 2021 - Jul 2022

Software Developer

- Built secure REST APIs using **Spring boot Framework** that served data to the **React** frontend based on dynamically chosen inputs and handled over 100000 users
- Constructed core Back-end APIs for multiple products and deploying services based on team's internal products
- Deployed **REST**-based microservices to the backend development environment through **Docker** containerization to ensure code integrity and stability
- Implemented Java EE components using **Spring MVC, Spring IOC, and Spring Security** modules
- Proactively managed and optimized cloud computing resources, handling surges in user loads, leading to a 25% improvement in system performance and scalability
- Developed backend components of 2 highly scalable e-commerce web applications by deploying in Spring boot
- Delivered 2 end-to-end projects developed in **JavaScript, Node.JS** with **mongoDB** as back-end database according to client requirements

### Sudesi Infotech, Mumbai, India

Aug 2019 - Dec 2019

Software Developer Intern

- Refactored packages and APIs of **microservices** to honour single responsibility principle and implemented caching for network calls to downstream services, which improved API response time by 50%
- Programmed web-application for business reporting, and systems monitoring using J2EE, Tomcat

## ACADEMIC PROJECTS

### Assessment Management System

Sep 2023 - Dec 2023

| Spring Boot, Hibernate, PostgreSQL, AWS-EC2, RDS, GCP, Mailgun, Debian 12, VPC, Lambda Serverless

- Designed and implemented a robust **multi-AZ** assessment platform featuring authenticated RESTful CRUD APIs, leveraging **Spring-boot, Hibernate** and **java** within a **serverless**, event-driven architecture
- Engineered and automated **AWS** infrastructure components, including **DNS, VPC, RDBMS, NoSQL, Load balancer**, while ensuring observability through Infrastructure as Code best practices using **Pulumi**

### Online Movie Booking System | Java, Spring Boot Hibernate, MySQL

Mar 2023 - Apr 2023

- Engineered an Online Movie Booking System utilizing **Java, Spring Boot** and **DAO Pattern**, enabling efficient **MySQL** database access
- Leveraged **Spring Security** implementing **OAuth for Authentication and authorization** to fortify endpoints, ensuring robust access control and enforcing appropriate status codes

### NU Chronicles | React, Node.js, JavaScript, MongoDB, Express.js

Nov 2022 - Dec 2022

- Designed front-end interface in React, programmed the back-end logic in Node.js and MongoDB
- Integrated platform with tailwind CSS and Bootstrap for visually appealing and user-friendly Interface

## ADDITIONAL INFORMATION

**Hobbies:** Running (Participated in Marathon for Social event in undergrad twice), Reading