

# 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

## PROFESSIONAL EXPERIENCE

### Tata Consultancy Services, Mumbai, India

Jan 2021 - Jul 2022

#### Software Developer

- Developed secure **REST APIs** using **ASP.NET Core framework** to serve data to React frontend based on dynamically chosen inputs, accommodating over 100,000 users.
- Designed and implemented core backend APIs for products leveraging **ASP.NET Core MVC** and **ASP.NET Core Web API**, adhering to best practices and microservices architecture.
- Utilized **Docker** containerization for deploying REST-based microservices to ensure code integrity, stability, and scalability.
- Implemented security measures using ASP.NET Core Identity framework for authentication and authorization.
- Collaborated with offshore teams in an agile-based scrum model to ensure timely delivery of user stories to clients, demonstrating strong communication skills essential for effective collaboration across diverse teams.
- Developed backend components of 2 auto-scalable e-commerce web applications deployed in **AWS-EC2** with **load balancing**.
- Successfully delivered 2 end-to-end projects developed in **C#** with **MongoDB** as the backend database, enhancing efficiency.

### Sudesi Infotech, Mumbai, India

Aug 2019 - Dec 2019

#### Software Developer Intern

- Refactored packages and APIs of microservices to adhere to the single responsibility principle and implemented caching mechanisms to optimize network calls, resulting in a **50%** improvement in API response time.
- Developed web applications for business reporting and systems monitoring using ASP.NET MVC and ASP.NET Core, deployed on IIS.

## TECHNICAL SKILLS

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

**Technologies:** Spring, ASP.NET, OAuth, J2EE, JWT, Hibernate, RabbitMQ, Node.js, Elasticsearch, REST, Gradle, Maven, Git, Junit, React.js, Servlet, Apache Kafka, Linux, Junit, jQuery, JMeter

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

**Cloud-Native:** AWS, GCP, Kubernetes, Docker, Terraform, Pulumi

## ACADEMIC PROJECTS

### Assessment Management System

Sep 2023 - Dec 2023

| Spring Boot, Java, Python, Hibernate, PostgreSQL, IAM, AWS-EC2, DNS, RDS, GCP, VPC, Autoscaling, Load Balancer, CloudWatch, SNS

- 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 Movie Booking System utilizing **Spring Boot**, **Hibernate** and **DAO Pattern**, enabling **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