**Pranav Khismatrao**

Marker with solid fillBoston, MA | (857)-693-1743 | [pranav.khismatrao07@gmail.com](mailto:pranav.khismatrao07@gmail.com) |A blue and white logo

Description automatically generated [LinkedIn](https://www.linkedin.com/in/pranavkhismatrao/) | A black and white cat logo

Description automatically generated[GitHub](https://github.com/Pranav014)

**EDUCATION**

**Master of Science, Software Engineering Systems** **Sep 2022 - May 2024**

Northeastern University, Boston, MA

**Bachelor of Engineering, Computer Software**  **Aug 2016 - May 2024**

Mumbai University, India

**PROFESSIONAL EXPERIENCE**

**Tata Consultancy Services**, Mumbai, India **Jan 2021 - Jul 2022**

Software Developer

* Spearheaded the development of **secure REST APIs** using the **Spring Boot** framework. This approach accommodated over **10,000** users, significantly enhancing the company's reach and user engagement
* Implemented **Docker** containerization for **microservices** deployment, enhancing code integrity and efficiency. This approach reduced deployment risks by 52% and improved overall project efficiency by 20%, ensuring scalability
* Implemented security measures using the **Spring Security Framework** for authentication and authorization, resulting in a **30% reduction** in security incidents and ensuring **99.9%** uptime for critical systems
* Designed and developed a serverless architecture using **AWS Lambda functions** to process real-time data streams, reducing operational costs by **30%**
* Employed Mockito for mocking external service calls in a microservices architecture, reducing test execution time by 40%
* Implemented TDD using **JUnit** for a Java-based microservices architecture, resulting in over 90% unit test coverage and a 25% reduction in production defects
* Conducted performance and load testing with **JMeter** on a high-traffic e-commerce platform, pinpointing bottlenecks and optimizing response times by 20%

**Sudesi Infotech**, Mumbai, India **Aug 2019 - Dec 2019**

Android Developer Intern

* Architected Android application frontend screens employing Intents and **MVVM** Model in **Android** Studio, catalyzing a 40% surge in user engagement and slashing bounce rates by 25% within three months
* Harnessed **Firebase** database to adeptly store and retrieve **NoSQL** data, culminating in a **60% reduction** in data access latency and propelling application responsiveness by 30%
* Orchestrated the fusion of RESTful APIs, database management (**SQLite**), and offline data synchronization, and seamless operation even in offline scenarios, resulting in a **20% surge** in user satisfaction and retention rates

**TECHNICAL SKILLS**

**Programming Languages:** Java, Golang, Python, React, NodeJS, JavaScript, Unix Shell Scripting, C#, HTML, CSS

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

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

**Cloud-Native:** AWS, GCP, Tomcat, Docker, Pulumi, Terraform, Hashicorp Packer

**ACADEMIC PROJECTS**

**Assessment Management System Sep 2023 - Dec 2023**

**| Spring Boot, Java, Python, Hibernate, PostgreSQL, AWS-EC2, IAM, DNS, RDS, GCP, VPC, CloudWatch, SNS, Route53**

* •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
* Leveraged observability tools to automate horizontal scaling and track CPU utilization data, which led to a **33% decrease** in infrastructure expenses
* Streamlined a comprehensive **CI/CD pipeline** that automates infrastructure provisioning and deployment, reducing manual effort by **30+ minutes** per pull request

**Online Movie Booking System | Java, Spring Boot Hibernate, MySQL** **Mar 2023 - Apr 2023**

* •Developed a robust Movie Booking System using **Spring Boot**, featuring secure **user registration**, efficient **ticket booking**, and a comprehensive **admin portal** for managing the movie database
* Leveraged **Spring Security** implementing **token-based Authentication and authorization** to fortify endpoints, ensuring robust access control and enforcing appropriate status codes
* Adhered to the **12-Factor App** methodology in the development, ensuring scalability, portability, and continuous deployment readiness