

Pranav Khismatrao

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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, resulting in a streamlined data delivery process to the React frontend. This optimization 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%**

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 **Firestore** 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

InsureSync | GO, OAuth2.0, Elastic Search, RabbitMQ, Express.js

Nov 2022 - Dec 2022

- Championed the development of a **GO-powered** backend project, seamlessly integrating **OAuth 2.0** protocol to establish secure **authentication** and **authorization**, leading to a **25% decrease** in security incidents
- Integrated **Elasticsearch** to optimize data indexing and search functionality, alongside **RabbitMQ** for efficient **messaging queue** implementation, resulting in a **41% reduction** in data retrieval time, enhancing overall system performance