**Pranav Khismatrao**

Boston, 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

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**TECHNICAL SKILLS**

**Programming:** Java 11, Golang, Python, React/Redux, Angular, Node.js, JavaScript, HTML/DOM, XML, CSS, AJAX, C#, Unix shell

**Frameworks, Libraries, and Tools:** Git, Spring Boot, Spring MVC, Gin, GORM, Elasticsearch, Hibernate, RESTful APIs, Maven, Apache Kafka, JUnit, Mockito, JMeter, Selenium, JWT, SAML, OAuth 2.0, RabbitMQ, Jenkins, Redis

**Database Software:** PostgreSQL, MongoDB, MySQL, GraphQL, DynamoDB

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

**PROFESSIONAL EXPERIENCE**

**Tata Consultancy Services**, Mumbai, India **Aug 2020 – Jul 2022**

Software Developer

* Led the development of **10 secure REST APIs** using the Flask framework, optimizing the content delivery process to a learning management system designed with a React front-end, achieving more than 5000 users.
* 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.
* Developed and maintained RESTful API endpoints in Flask with **test-driven development (TDD)** of new API endpoints, achieving a 10% improvement in backend response times and a 20% reduction in downtime.
* Integrated **Apache Kafka** for real-time event-driven communication, enabling instant notifications to users for expense logging, budget thresholds, and report generation, resulting in 60% faster notification delivery.
* Selected the test cases to be automated and performed functional testing of the front-end using Selenium and created a Data-Driven Framework using pytest.

**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.
* Developed a system to harness the **Firebase** to store and retrieve NoSQL data adeptly, culminating in a **60% reduction** in access latency and propelling application responsiveness by 30%.
* Orchestrated the fusion of RESTful APIs, **SQLite**, offline data synchronization, and seamless operation even in offline scenarios, resulting in a **20% surge** in user satisfaction and retention rates.

**ACADEMIC PROJECTS**

**Assessment Management System Sep 2023 – Dec 2023**

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

* Designed and implemented a robust **multi-AZ** assessment platform featuring authenticated RESTful CRUD APIs with a robust logging mechanism and event-driven architecture.
* Leveraged observability tools to automate horizontal scaling and track CPU utilization, which led to a **33% decrease** in infrastructure expenses and downtime.
* Crafted scalable app with coding standards, testing, documentation, and CI/CD workflow, reducing manual oversight by 30+ minutes per PR with **GitHub Actions** and **HashiCorp Packer.**

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

* Developed a robust Movie Booking System featuring secure user registration, efficient **ticket booking,** and a comprehensive admin portal for managing the movie database with **100 records**.
* Utilized **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.
* Optimized indexing and search functionality alongside **RabbitMQ** for efficient **messaging** **queue** implementation, resulting in a **20%** **reduction** in data retrieval time, enhancing overall system performance.

**EDUCATION**

**Master of Science, Software Engineering Systems** **May 2024**

Northeastern University, Boston, MA GPA: 3.6/4.0

**Bachelor of Engineering, Computer Software**   **May 2020**

Mumbai University, India