

ROHAN KATALE

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Education

Indian Institute of Information Technology, Pune

B.Tech in Computer Science & Engineering

2022 - 2026

CGPA: 7.61/10

Projects

Microservices-Based Quiz Application — Java, Spring Boot, Maven, Eureka

[Source Code](#)

- Developed a scalable microservices quiz app using Spring Boot and Spring Cloud (Eureka, Gateway, OpenFeign), featuring distinct services for Questions, Quizzes, API Gateway, and Service Registry.
- Engineered RESTful APIs for CRUD operations on questions and quiz lifecycle management; integrated PostgreSQL using Spring Data JPA and used Feign for inter-service communication.
- Ensured robust service discovery with Eureka and managed API traffic with Spring Cloud Gateway for routing load balancing; validated code with JUnit.

Event Booking API — Golang, Gin, SQLite, JWT

[Source Code](#)

- Developed a robust event booking API using Golang and the Gin framework, with SQLite for data persistence and JWT for secure authentication.
- Designed and implemented RESTful endpoints for user management, event lifecycle, and booking operations (registration/cancellation).
- Integrated middleware for JWT-based authentication and password hashing (bcrypt), ensuring secure API access and data integrity.
- Architected the application with a clean, modular structure (routes, models, middleware, utilities) for scalability and maintainability.

Cloud Threat Detection Using Machine Learning — AWS, bash, Python, ML

- Developed a real-time Intrusion Detection System (IDS) for AWS, utilizing Python, TensorFlow, Keras, Scikit-learn (for PCA), and an ANN for threat classification.
- Simulated DoS (Hulk), DDoS (Metasploit), and SQLi (SQLMap) attacks on a live AWS EC2 instance; captured traffic with 'tcpdump' and extracted 80 network flow features using CIC-FlowMeter.
- Deployed the ANN model for real-time anomaly detection on EC2, achieving 98.24% accuracy (with PCA) and 17.4% faster inference, with automated SMTP email alerts for critical threats.

Technical Skills

Languages: Java, Go, Python, C++, JavaScript

Backend Technologies: Spring Boot, Spring Cloud (Eureka, Gateway, OpenFeign), Maven, Golang, Gin

Frontend Technologies: React, Tailwind CSS, HTML, CSS

Databases: PostgreSQL, MySQL, MongoDB, SQLite

Cloud Platforms: AWS (EC2), Google Cloud Platform

Developer Tools: Git, GitHub, Docker, Postman, VS Code, CIC-FlowMeter

Key Concepts/Coursework: Linux, Data Structures Algorithms, OOP, DBMS, Operating Systems, Computer Networks, Software Engineering, Cryptography Network Security

Achievements and Certifications

5th Place, Devstorm BITS Goa Hackathon

- Secured 5th place in Devstorm BITS Goa Hackathon, contributing to frontend development and showcasing technical expertise in software development.

Top 7% on TryHackMe Platform, Level 8

- Demonstrated strong cybersecurity skills and expertise through hands-on challenges and exercises.

Solved over 150+ problems of DSA on LeetCode.

FLY-Scholar (Finding the Leader in You) Program

- Completed a program to develop non-cognitive skills including conscientiousness, innovativeness, taking initiative, perseverance, and problem-solving.

Google Cybersecurity Professional Certificate

- Completed eight courses developed by Google, demonstrating proficiency in Python, Linux, SQL, SIEM tools, and IDS, with knowledge of Cybersecurity risks, threats, and mitigation techniques.