

# Tapan Kumar

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## EXPERIENCE

### Analyst/Software Engineer, Capgemini

06/2024 - Present | Bangalore, India

- Delivered RESTful APIs for the Organization module, accelerating service integration by 40%.
- Led API development for an internal search engine, used by 100+ daily active users.
- Built robust authentication and user profile APIs with full CRUD operations, increasing system reliability and audit transparency.
- Contributed to front-end enhancements using React.js, reducing page load time by 40% and improving performance scores.
- Introduced a "Connect with Us" contact feature, leading to a 60% improvement in customer query resolution time.

### Graduate Engineer Trainee, Jio Platforms Limited

12/2023 - 05/2024 | Mumbai, India

- Deployed a real-time DevOps monitoring dashboard with severity-based filtering, decreasing alert fatigue among engineers by 25%.
- Constructed backend logic using Django and PostgreSQL, improving alert classification accuracy by 35%.
- Embedded Prometheus and Grafana to deliver live infrastructure insights, boosting incident visibility and response coordination.
- Improved incident response time by 40% using visual prioritization and grouped alerts.

### Full Stack Developer, Auctopus Technologies

04/2023 - 11/2023 | Remote, India

- Engineered RESTful APIs using Django and Boto3 to control and manage AWS EC2 instance states from a centralized interface, reducing manual intervention by 60%.
- Programmed a real-time observability dashboard to fetch, display, and manage 10+ EC2 instances across environments.
- Designed a responsive React.js UI for interactive server control, improving infrastructure visibility and operational agility.
- Implemented custom alert routing and instance monitoring logic, reducing false positives by 30% and enhancing system stability.

## SKILLS

**Programming Languages:** Python | Java | JavaScript | TypeScript | SQL

**Frameworks and Libraries:** React.js | Angular | Spring Boot | Micro-services | Django | Django Rest Framework | Django Channels | Redux | Redux Query Toolkit | Tailwind CSS | Formik | Yup | Feign | Eureka

**Database Management:** SQL | Postgress

**Version Control System:** Github | Github Actions | Azure

**API Development and Testing:** Postman | Swagger

**Tools & Plateforms:** Azure DevOps Boards | GitHub | Visual Studio Code | IntelliJ | MySql

**Tools & Integration:** Celery | Postman | OAuth | JWT | Auth0

## PROJECTS

### Quiz Management System

- Developed a Dockerized microservices-based quiz platform using Spring Boot, Angular, and Eureka Server, enabling horizontal scalability and role-based access control.
- Automated quiz creation by integrating OpenAI API and PDF-to-question pipeline, reducing manual workload by 85%.
- Integrated a real-time chatbot to handle user satisfaction.
- Designed interactive admin dashboards using Angular Charts to visualize quiz attempts, completion rates, and student performance.
- Implemented Feign Client for resilient inter-service REST communication and improved database response time by 40% via optimized MySQL queries.
- Applied Spring Security and OAuth2 for secure user authentication across services.

### DevSearch,

Username: admin, password: admin123

- Architected a Django-based project-sharing platform with intuitive UI/UX; onboarded 10+ users with 95% satisfaction.
- messaging, and project listings; zero breaches during testing.
- Outlined responsive UI using Django Templates and Bootstrap; achieved 100% Lighthouse scores.
- Applied modular architecture, cutting future integration time by 30%.

### E-Commerce

- Constructed a full-stack e-commerce app using React, Redux, Django, and DRF; scaled to handle 500+ product listings with minimal latency.
- Integrated OAuth2 for authentication and SMTP for onboarding/alerts, increasing email deliverability rate to 98%.
- Enhanced API throughput by 45% through optimization and clean RESTful architecture leveraging Django best practices.

## EDUCATION

### B.Tech in Information Technology,

Maulana Abul Kalam Azad University of Technology

2020 - 2023 | West Bengal

## CERTIFICATES

Python , Python With Data Structures ,  
React , Java , JavaScript , Problem  
Solving , Docker