Tapan Kumar

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EXPERIENCE

Analyst/Software Engineer, Capgemini

06/2024 – Present | Bangalore, India

- Developed RESTful APIs for the Organization module, cutting cross-service integration time by 40%.
- Spearheaded an API powering a dynamic organization search engine, attracting 100+ daily active users and improving internal developer engagement.
- 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

- Designed and 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.
- Accelerated incident response workflows by 40% through visual prioritization and dynamic alert grouping.

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%.
- Developed 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 microservices-based quiz platform using Angular, increasing quiz attempt capacity by 30% and enabling performance visualization with Angular Charts.
- Automated quiz generation by integrating OpenAI API with PDF upload support, reducing manual question creation time by 85%.
- Integrated a real-time chatbot to support over 100+ student queries per week, enhancing user satisfaction and reducing support load.
- Architected dynamic admin dashboards to track daily quiz attempts, completion rates, and student performance trends.
- Leveraged Feign Client for seamless inter-service communication and optimized MySQL queries to improve database response time by 40%.

DevSearch ↗

- Crafted a Django-based project-sharing platform with intuitive UI/UX; onboarded 10+ users with 95% satisfaction.
- Secured platform with JWT auth, messaging, and project listings; zero breaches during testing.
- Designed 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

CGPA: 9.2/10

CERTIFICATES

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