Akhil Parekh

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SUMMARY

Results-driven Senior Backend Engineer with over 4 years of experience designing, developing, and optimizing complex, scalable software systems. Expertise in Microservices Architecture, API Development, Cloud Computing (AWS, GCP), and AI/LLM Integration (Python, Django, Node.js). Proven track record includes reducing system complexity by 60% and operational costs by 45% through strategic architecture. Effectively transitioned from frontend development, leveraging full-stack understanding to build robust backend solutions. Passionate about code quality, teamwork, and mentoring junior engineers.

SKILLS

Languages: Python, JavaScript, SQL

Frameworks: FastAPI, Django, Node, DRF, ReactJS, WebSockets

Databases: PostgreSQL, DynamoDB, Redis

Cloud & DevOps: Docker, AWS(S3, Lambda, EC2, SQS, Bedrock), GCP

Tools: Unix, Bash, Git, GitHub, Heroku, Postman, Celery

EXPERIENCE

Senior Back End Engineer | Lingpad | Ahmedabad, Gujarat | June 2023 - Present

- Strategically redesigned system architecture, implementing a comprehensive Microservices Architecture using Node.js, AWS Lambda, and Django; reduced overall system complexity by 60% and enhanced scalability/maintainability.
- Architected and developed a sophisticated AI assist module with flexible Large Language Model (LLM) integrations, improving customer experience workflows and fault tolerance by 25%.
- Engineered scalable backend solutions (Django/Node.js) supporting enterprise needs with robust third-party service integrations and handling concurrency effectively.
- Led technical design discussions, performed code reviews, and provided architectural guidance, aligning technical solutions with business objectives through effective decision-making.
- Achieved a 45% reduction in operational costs via strategic cloud computing infrastructure optimization (AWS) and intelligent dependency management.
- Established logging and monitoring practices to proactively identify and resolve performance bottlenecks.
- Optimized database interactions using Django ORM, designed efficient PostgreSQL schemas, and applied caching strategies using Redis.
- Demonstrated expertise in integrating third-party services while maintaining system integrity and performance.

Back End Engineer | Songdew Media | Gurgoan, Haryana | August 2021 - March 2023

- Spearheaded end-to-end planning and development of critical product modules, demonstrating technical leadership.
- Led development of an Electronic Press Kit (EPK) module, increasing client visibility by 40%.
- Orchestrated and optimized a robust Django-based backend for high concurrency traffic.
- Applied DRY/SOLID principles to restructure code, enhancing modularity and maintainability (Python/Django).
- Implemented unit testing and integration testing practices to ensure code quality and reliability.
- Collaborated with frontend teams and product managers to deliver features effectively.

Front End Developer | Melzo Interactive | Surat, Gujarat | August 2020 - March 2021

- Built secure user validation services, implementing security best practices for user data protection.
- Pioneered Augmented Reality projects (three.js/TensorFlow.js) for jewelry virtual try-on solutions.
- Developed interactive features using computer vision (OpenCV) and image processing (ffmpeg).
- Designed and implemented an internal tool improving operational efficiency by 15%.

PROJECT

Jewellery Try-On | April 2021 - June 2021

- Engineered a web application using React and TensorFlow.js for realistic virtual jewelry previews via augmented reality.
- Integrated machine learning models and computer vision libraries for seamless virtual try-on.

Interactive Projector | January 2020 - July 2020

- Developed a cost-effective audio-visual alternative using open-source computer vision (OpenCV) and Kinect.
- Integrated image processing techniques for accurate input detection, enhancing user engagement.
- Developed a cost-effective alternative to traditional audio-visual systems for office and educational environments.

EDUCATION

Bachelor ofEngineering inInformation & Communication Technology | L.J Institute of Engineering and Technology | Ahmedabad, Gujarat | 2020 | 8.3