Sai Kiran Nandy

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Experience

Backend Engineer, Dessot — Bengaluru, KA   Jan 2023 – Present

- For the Shineoak App on Play Store,Built scalable backend services using **Node.js, Strapi, PostgreSQL, and Redis**, This approach makes the system **40%** more efficient.
- Developed video analytics platform using **FastAPI, MongoDB, and YouTube Data API**, serving **50+ countries**.
- Implemented **JWT authentication**, role-based systems, and real-time tracking with geographic analytics.
- Develop a custom AEM workflows for bulk asset ingestion, metadata automation, and tagging, that reduced manual effort.
- Built **AEM DAM solutions** managing **digital assets** with automated metadata extraction and smart tagging.
- Designed **Java Sling Servlets** and **OSGi services** for custom asset process and workflow automation.
- Implemented **AEM Dynamic Media** integration for automatic rendition generation across **20+ image formats**.
- Created custom **AEM Workflow Models** for approval processes, asset lifecycle management, and archival automation.
- Optimized **AEM dispatcher caching** and CDN integration, improving asset delivery performance by **70%**.
- Integrated third-party services including **SendGrid, Twilio, Razorpay, OpenAI API, Cloudinary, and Firebase**.
- Designed internal tools using **Retool**, reducing operational effort by **50%** and improving API response times by **30%**.
- Deployed backend services on **AWS EC2** using **Docker, Nginx, and PM2**.

Backend Developer Intern, Dessot — Bengaluru, KA   Aug 2022 – Dec 2022

- Built and optimized **5+ RESTful APIs** using **Node.js and Strapi**, improving response time by **30%**.
- Optimized **PostgreSQL** queries, reducing execution time by **40%**.
- Tested APIs using **Postman** and collaborated with frontend teams in an Agile environment.

Projects

CollegeBuddy — Student Information System

- Developed a student management platform serving **500+ students**, including fee status, attendance, scholarships, and admin controls.
- Built secure backend APIs using **Node.js, PostgreSQL, and JWT authentication**.

AEM Digital Asset Management Automation

- Developed bulk asset upload pipelines using **AEM 6.x, Java, Sling Servlets, and Workflow Models**.
- Automated metadata extraction, tagging, approvals, and lifecycle management.
- Integrated **AEM Dynamic Media** for optimized renditions and dispatcher caching.
- Implemented archival and cleanup automation, improving DAM performance and governance.

Blog Platform — Full Stack

- Developed a blogging platform using **Django, PostgreSQL**, and Django template engine.
- Implemented user authentication, CRUD operations, and media uploads with Django ORM.
- Built admin interface for content management and user moderation.

Education

B.Tech in Electrical & Electronics Engineering, Srinix College of Engineering   Sept 2020 – May 2024

CGPA: 7.84 — Transcript

Skills

Backend: Node.js, Express, Python, FastAPI, Django, Strapi, REST APIs, JWT, Redis, PostgreSQL, MongoDB
Python Stack: FastAPI, Django, Pydantic, Motor (Async MongoDB), Python-dotenv, Uvicorn
AEM: AEM 6.x, Java, Sling Servlets, OSGi Services, Workflow Models, Dynamic Media, Dispatcher
Cloud & DevOps: AWS EC2, Amazon RDS, Docker, Nginx, PM2, Render, Vercel
Tools: Git, GitHub, Postman, Retool, Jira
Integrations: SendGrid, Twilio, Razorpay, OpenAI API, YouTube Data API, Cloudinary, Firebase

Additional Information

- **TechFest Lead (Saksham):** Organized a college TechFest with **250+ participants** from **25 colleges** in 15 days.