

# Sai Kiran Nandy

skgnandy1@gmail.com | +91 9668777855 | [linkedin.com/in/saikiran-nandy](https://www.linkedin.com/in/saikiran-nandy) | [github.com/skgnandy | skn-portfolio](https://github.com/skgnandy/skn-portfolio)

## Summary

---

Backend Engineer with 3 years of experience specializing in **AEM Assets (DAM)** and backend system development. Experienced in designing **AEM asset workflows, metadata management, asset ingestion pipelines, and Dynamic Media integrations**. Strong expertise in **Sling Servlets, OSGi, and AEM 6.x**, along with backend technologies like **Node.js, Python, PostgreSQL, and Redis**. Proven track record of improving asset delivery performance by **70%** and building scalable systems serving **50+ countries**.

## Experience

---

**Backend Engineer (AEM Assets & Node.js)**, Dessot — Bengaluru, KA Jan 2023 – Present

- Built scalable backend services for the Shineoak app using **Node.js, Strapi, PostgreSQL, and Redis**, improving system efficiency by **40%**.
- Developed a video analytics platform using **FastAPI, MongoDB, and YouTube Data API**, serving users across **50+ countries**.
- Developed custom **AEM DAM workflows** for bulk asset ingestion, metadata schema automation, and asset lifecycle management.
- Built scalable **AEM DAM (Digital Asset Management) solutions** for managing large volumes of digital assets with automated metadata extraction and tagging for efficient asset management.
- Designed and implemented **Java Sling Servlets** and **OSGi services** for workflow automation.
- Integrated **AEM Dynamic Media** to generate renditions across **20+ image formats**.
- Created custom **AEM Workflow Models** for approval processes, lifecycle management, and archival automation.
- Designed asset ingestion pipelines and metadata schemas to improve asset discoverability and reduce manual processing effort.
- Optimized **AEM Dispatcher caching** and CDN integration, improving asset delivery performance by **70%**.
- Implemented secure **JWT authentication**, role-based access control, and real-time tracking with geographic analytics.
- Integrated third-party services including **SendGrid, Twilio, Razorpay, OpenAI API, Cloudinary, Supabase, and Firebase**.
- Designed internal tools using **Retool**, improving operational efficiency and API performance.
- 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**, ensuring scalable and secure data handling.

## 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.
- Reduced manual asset processing effort through workflow automation and improved DAM efficiency.

## 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

---

**Core Backend:** Node.js, Express, Python, FastAPI, Django, REST APIs, JWT, Redis, PostgreSQL, MongoDB

**AEM Technologies:** AEM 6.x, AEM Assets (DAM), Sling Servlets, OSGi Services, Workflow Models, Dynamic Media, Dispatcher, Metadata Schemas

**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, Supabase, Firebase

## Additional Information

---

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