

Nandana P

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Profile Summary

Software Engineer with a strong foundation in full-stack development and system design. Experienced in C++, Python, JavaScript, and Node.js with hands-on work in Express.js, NestJS, and Next.js. Skilled in PostgreSQL, MongoDB, JWT authentication, RBAC, and deploying scalable, high-availability systems using Docker, Docker Swarm, VRRP, and Keepalived.

Education

NIT Calicut, B.Tech Electronics and Communication Jul 2021 – May 2025
CGPA: 7.31

Kendriya Vidyalaya Rubber Board, Kottayam 2019 – 2021
Class XII: 92.8% — Class X: 95.4%

Skills

Languages: C++, Python, JavaScript, Node.js

Frameworks: Express.js, NestJS, Next.js

Databases: PostgreSQL, MongoDB

Auth & Security: JWT, RBAC, bcrypt

DevOps / HA: Docker, Docker Swarm, VRRP, Keepalived

Experience

UVJ Technologies, Kochi

Associate Software Engineer

May 2025 – Present

- Developed REST APIs using NestJS with Next.js integration.
- Implemented JWT authentication and role-based access control.
- Optimized data storage and queries using PostgreSQL.
- Deployed containerized services using Docker and Docker Swarm.
- Designed high-availability systems using VRRP and Keepalived.

Projects

- **Blogging Application (2025)** — Full-stack platform using Next.js, Node.js, MongoDB with secure authentication.
- **Automatic Video Platform** — AI system generating videos from URLs using NestJS, Remotion, Puppeteer, and ElevenLabs.
- **Blogger AI Content Generator** — Automated SEO content and image generation using OpenAI and Mistral.

Internship Experience

CSE Dept, NIT Calicut

May 2023 – Jul 2023

- Configured centralized log server with visualization tools.
- Set up pfSense firewall and network gateway.
- Implemented Graylog for log aggregation and dashboards.

Achievements

- **Runner-Up – UVJ Technologies Overnight Hackathon 2025**
- **Finalist – Smart India Hackathon (Hardware, 2022)** – Developed an automatic scanning machine converting pages to digital text with text-to-speech for accessibility.
- **IEEE SIGHT Chair, NITC SB** – Secured \$3,785 funding from IEEE HAC; transformed Anakkam-poyil library into a solar-powered digital hub.