Darpan Kattel /darpankattel/

Backend Developer

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PROFILE

Passionate and experienced Backend Developer with 5+ years of experience in backend development using Django(RESTful APIs using DRF), and 3+ years in frontend development using React.js and Next.js. Have designed and deployed multiple projects, in AWS and Nepal's GIDC, also leading end-to-end projects from development to deployment. Solid in database management (PostgreSQL, MySQL), MongoDB, DevOps practices, and AWS. Skilled in architecting systems, writing clean and maintainable code, tests, and collaborating with cross-functional teams to solve real-world problems.

EXPERIENCE

Backend Developer | Jul 2022 – Jun 2025

Heisenberg Engineering Pvt. Ltd. – Pulchowk, Lalitpur

- Led multiple large-scale Django and Next.js projects for government and semi-government clients.
- Architected and deployed GIS-based platforms using GeoDjango, PostgreSQL/PostGIS.
- Set up full CI/CD pipelines with GitHub Actions; automated deployments using NGINX, and PM2.
- Fully DRF based RESTful APIs.

Key Projects:
- recentair.com – AQI Monitoring Platform
  - Developed using Django and Next.js, deployed to AWS EC2 and Amplify.
  - Set up custom domains with Route 53 and real-time data integration via AWS IoT Core.
  - Handled CI/CD, AWS security (IAM roles, CORS, CSRF).
- gis.tdf.org.np: Investment data portal for a semi-government body.
- KVDA GIS Portal: Platform for Kathmandu Valley Development Authority.
- Frequency Management GIS: For the Ministry of Communication and IT, Nepal.
- Worked extensively with AWS, deploying applications on EC2, using Timestream, RDS, IoT Core.
- Maintained secure deployment environments with HTTPS, CORS, CSRF protection, and other security practices.

EDUCATION

Bachelor of Computer Engineering | 2022 – 2025

IOE, Pulchowk Campus

- Operating Systems, Computer Networks, Distributed Systems, Software Engineering, Data Eng., Applied Data Science

CERTIFICATES

ACES TECHFEST 4.0 Hackathon – 1st Place

Led a team to victory with Talkspace, a mental health solution, competing against senior and external participants.

SKILLS

- Python, JavaScript, C/C++, Bash
- Django + DRF, React.js, Next.js
- PostgreSQL, MySQL, SQLite, PostGIS
- GitHub Actions, Docker, PM2, NGINX, Gunicorn, CPanel
- AWS (EC2, RDS, Timestream, IoT Core, Route 53), Ubuntu
- REST API, WebSockets, CI/CD, System Administration, Git, HTML, CSS