Amrit Paudel

amritpaudel073@gmail.com | amritpaudel.info.np | github.com/amrit073 | +977 9744300779

Backend Engineer with experience building and maintaining scalable backend systems. Skilled in building automation pipelines, deploying cloud-native stacks, and implementing GenAI-powered solutions. Passionate about delivering production-grade systems and infrastructure.

Skills

AI/GenAI - Retrieval-Augmented Generation (RAG), Agentic Workflows, Document Processing
Backend - Python, Node.js, Golang
Cloud & DevOps - AWS (CDK, EC2, Lambda, CloudFront, Route53, RDS), GCP (Firestore, Cloud Run), Docker, NGINX
Databases - PostgreSQL, Firestore
CI/CD & Automation - GitHub Actions, GitLab CI, Infrastructure as Code (IAC)
Scripting - Bash, Python

Experience

Software Engineer, Codniv Innovations – Baluwatar, Kathmandu   **March 2023 – Present**
- Built and maintained the backend for a production AI application used by over 600,000 users.
- Designed agentic workflows and Retrieval-Augmented Generation (RAG) pipelines to power intelligent document processing.
- Developed an OCR-to-searchable-text system with custom chunking/parsing logic across diverse formats.
- Led cloud infrastructure design using AWS CDK for one-command deployment of full stack: Route 53, CloudFront, Lambda, EC2, S3, RDS, WebSockets, Secrets Manager.
- Implemented geo-aware routing and SSL offloading using NGINX for multi-region deployments.
- Integrated GCP services (Firestore, Cloud Run) for scalable user and team management.

Software Engineer Intern, Codniv Innovations – Baluwatar, Kathmandu   **Dec 2022 – March 2023**
- Gained hands-on experience with PostgreSQL, CI/CD pipelines (GitHub, GitLab), and ORM-based design

Projects

- **Email-based Auth Flow** - Built an authentication flow using nodemailer, ExpressJS, and Postgres. Used Knex ORM for database interactions
- **BM25 Full-text search** - Implemented the BM25 ranking algorithm in Rust for search engine-like capabilities over large text corpora.
- **AD to BS** - Published utility crate for Nepali date conversion (AD <-> BS). Used for calendaring tools and back-office systems.

Education

Patan Multiple Campus – BSc.CSIT (Expected Dec 2025)
Daisy English Boarding School, Parsa, Chitwan – High School Diploma - Passed out in 2020.