

Amrit Paudel

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Backend engineer passionate about cloud computing, skilled in building scalable solutions on AWS and GCP with expertise in AI-driven applications, automation, and database management.

Skills

Backend engineering - Python, Nodejs, Golang

GenAI - AI Agents, RAG, Document processing

Database design and administration - Postgres, Firestore

Cloud - AWS, GCP

Automation - Cloudformation CDK, Github actions

Scripting - Bash, Python

Experience

Software Engineer, Codniv Innovations – Baluwatar, Kathmandu

March 2023 – Present

- Worked with Agentic workflows and Retrieval-Augmented Generation (RAG) to improve AI-driven information retrieval and document processing.
- Developed an OCR solution for converting scanned PDFs into searchable digital formats and created efficient parsing and chunking methods for various document formats.
- Worked with Retrieval-Augmented Generation (RAG) techniques to improve AI-driven information retrieval and document processing workflows.
- Worked on a management app using Postgres for data storage, supporting efficient data handling and querying.
- Worked on implementing cloud-native solutions for user and team management, leveraging GCP services (eg, firestore, Cloud Run services/jobs) to implement scalable and efficient systems.
- Deployed cloud-native solutions with AWS, leveraging automation tools like CDK for multistage deployments (EC2, CloudFront, RDS, Route 53, Secrets Manager, API Gateway, WebSockets).
- Implemented NGINX for geo-routing, SSL handling, and proxy configurations, ensuring high availability and optimized traffic routing.

Software Engineer Intern, Codniv Innovations – Baluwatar, Kathmandu

Dec 2022 – March 2023

- Learned PostgreSQL and gained proficiency in using ORMs for efficient database management.
- Focused on developing well-maintained, tested software to ensure scalability, performance, and reliability.
- Developed and implemented CI/CD pipelines in GitHub and Gitlab for automated testing, deployment, and integration.

Projects

- [Mail-based with nodemailer](#) - implemented in TypeScript. Used: ExpressJS, Knex ORM, Postgres.
- [BM25 Full-text search](#) - implemented in Rust, the BM25 algorithm for full-text search in text documents.
- [AD to BS](#) - Rust crate for conversion of AD to BS.

Education

Patan Multiple Campus – Bsc.CSIT - Running

Daisy English Boarding School, Parsa, Chitwan – High School Diploma - Passed out in 2020.