

# Amrit Paudel

[hi@amritpaudel.info.np](mailto:hi@amritpaudel.info.np) | [amritpaudel.info.np](http://amritpaudel.info.np) | [github.com/amrit073](https://github.com/amrit073)

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** - Langchain, 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 Retrieval-Augmented Generation (RAG) techniques to improve AI-driven information retrieval and document processing workflows.
- 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-maintainable, 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, 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.