

Basanta Rai

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[LinkedIn](#) | [GitHub](#) | [Website](#)

WORK EXPERIENCE

Associate Software Engineer (Node.js)

May 2023 - Present

Annil Technologies Pvt. Ltd. | Lalitpur, Nepal

- Developed a **content streaming** feature for a generative AI application, enabling **real-time, continuous responses** to user queries, similar to how **ChatGPT** handles conversational interactions.
- Collaborated in creating a fullstack project following **monorepo** architecture using **pnpm workspaces** and **turbo repo**.
- Implemented **BullMQ** for task queuing systems, ensuring optimized background processing.
- Integrated **OpenAI**, **LangChain**, and **ChromaDB** to build state-of-the-art generative AI applications.
- Created a file explorer for **S3 bucket**, enabling efficient navigation and management of files and directories.
- Customized **Botpress** to develop chatbots tailored to specific project requirements.
- Adapted swiftly to changing project requirements while ensuring code optimization and quality.
- Developed scalable **APIs** using Node.js, integrating both **SQL** such as (**PostgreSQL**) and **NoSQL** databases such as (**MongoDB**).
- Contributed to robust **API** development while adopting best practices for code quality and maintainability.
- Actively participated in code reviews and implemented feedback to improve coding standards and efficiency.
- Demonstrated a proactive approach to problem-solving, enhancing system performance.
- Tried **Test-Driven Development (TDD)** to ensure code quality and maintain high coding standards.

PROJECTS

one-shot-unfollow

[View in GitHub](#)

- Automated Instagram unfollowing in bulk, clearing entire following lists in one shot.
- **Technologies:** *Node.js, Express.js, ejs, Tailwind CSS*

link-lurker

[View in GitHub](#)

- Developed an experimental web crawler using Node.js, capable of recursively crawling websites via absolute and relative links.
- **Technologies:** *Node.js*

deerhack-smatch-api

[View in GitHub](#)

- Collaboratively developed an API to facilitate job application processes, including AI-based CV evaluation.
- **Technologies:** *Node.js, Nest.js, PostgreSQL, OpenAI, Langchain*

panoramer

[View in GitHub](#)

- Developed a web app to merge overlapping images into panoramic images, as part of the final year project.
- **Technologies:** *Python, Flask, React*

itc

[View in GitHub](#)

- Built a CMS-driven website for Prime IT Club to handle blog posts, events, and club members.
- **Technologies:** *Laravel, Tailwind CSS, Alpine.Js and MySQL*

skillit

[View in GitHub](#)

- Created a web app for Skillitv1.0 event participants to enable seamless registration and seat booking with a robust CMS.
- **Technologies:** *Laravel, Tailwind CSS, Alpine.Js and MySQL*

EDUCATION

BSc. CSIT

2019 - Present

Prime College, Kathmandu(Nepal)

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Go, PHP, Lua, Python

Frameworks: Node.js, Express.js, Nest.js, React, Laravel, Flask

Databases: MySQL, PostgreSQL, MongoDB

Tools/Platforms: Docker, Linux, Jenkins, Portainer