ANUSHEEL CHAPAGAIN

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|LinkedIn|

Professional Summary

Energetic and client-focused engineer with technical expertise in energy information technology and design engineering. Proficient in full-stack application development, data pipeline automation, AI Integration and API microservices. Recently facilitated in implementing full stack data services in developing analytical planning solutions for multi-billion dollar construction projects to enhance the project productivity and timely completion of milestone activities.

Education

Memorial University of Newfoundland   **St. Johns, Canada**
MASc. Energy System Engineering   2022 Jan – 2023 Apr
Related activities/Curriculum: *Peer-Peer Energy Trading* Algorithm using Python (Web3 frameworks), *Advanced Fluid Mechanics, Advanced engineering system design*

Kathmandu University   **Dhulikhel, Nepal**
Bachelor's in Mechanical Engineering   2015 Aug – 2019 Nov
Related activities: Object oriented programming language (C++), Arduino Programming, Heat Transfers principles, Control Systems

Professional Experience

Atkins Realis   **St. Johns, Canada**
Solution Engineer- West White Rose Project   2023 Aug – Jan 2025
- Automated and developed full stack complex construction data pipelines application , increasing efficiency by 25%, and enhanced business intelligence solutions through Python scripting..
- Design and deploy custom Application Programming Interface (API) connectors to extract and automate complex data collection, modify, delete process.
- Design, maintain, administer multi-billion dollar construction progress metrics microservice applications and report on project outcomes and present analytical findings.
- Train business clients on using different software technologies.

GajjabIT   **Kathmandu, Nepal**
Backend Engineer   2019 Nov – 2021 Nov
- Maintained, debugged, and enhanced the backend architecture of a research journal database system using the Spring Boot (Java) framework.
- Designed and developed journal recommendation algorithms to enhance user experience.
- *Created and deployed various backend test cases, significantly reducing bug response times.*

Personal Projects

Energy Consumption Prediction Application: LLM-powered using Python-Flask, Python-Scikit-Learn, GPT-4, HTML, CSS, and JavaScript.-Demonstration Video

Weather Forecasting Application: API-powered using Python-FastAPI, Python-Unicorn, Python-Scikit-Learn, and more.

Real-time Grid Data Streaming Application: Built using TypeScript, JavaScript, HTML, and CSS.

AI-Radio Application: Capable of voice streaming energy consumption data using Python-Uvicorn, Python-WebSocket, and LLM models.

Skills Summary

- Programming Tools: C, C++, Java, Python, HTML, CSS, Javascript
- Database Tools: MySQL, Postgres, Supabase, Quickbase, MongoDB
- IDE/AI Tools: Ollama, OpenRouter, Cursor, VS-Studio, Intellij
- Project Management & Business Intelligence Tools: MS Office, Power BI

Volunteering

- Lead the team to commence 2-day Mechanical Project Showcase Exhibition
- First responder providing first aid support to the massive earthquake disaster in nepal.
- Actively participated in blood donation campaign
- Lead guitarist for university musical band

References

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