

# Ashish Thapa

## Software Developer

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## Summary

Results-driven Software Developer with 4+ years of experience specializing in backend development and cloud infrastructure, leveraging JavaScript, Python, and AWS/Azure. Expertise in designing scalable architectures with CI/CD, APIs, and data pipelines, including AI solutions. Seeking a challenging role to contribute to innovative projects in AI, Big Data, and full-stack development environments.

## Skills

**Languages & Frameworks:** JavaScript, TypeScript, Python, Node.js, NestJS, Express.js, React, NextJS, Mocha, Chai.

**Databases:** MySQL, Postgres, MongoDB, Redis.

**Cloud Platforms:** AWS, Azure, Heroku.

**DevOps & Tools:** Git, Docker, Postman, Swagger, Jira, CI/CD (Bitbucket, GitLab), PowerBI, Tableau.

**Big Data/AI/Machine Learning:** Hugging Face, TensorFlow, Scikit-learn, Spark.

**Core Concepts:** OOP, Data Structures & Algorithms, Cloud Computing, AI Infrastructure & Architecture.

## Professional Experience

### Software Developer (remote)

Al Ghawali Manpower Supply, Sohar, Oman

Jan 2025 - Current

- Spearheaded end-to-end revamp of legacy systems following an incomplete and unauthorized handover by the previous developer; recovered and restored critical code from servers to bring core applications live.
- Set up GitHub repositories and integrated CI/CD pipelines, reducing deployment time by 50% and enabling automated, error-free releases.
- Took direct responsibility for gathering client requirements and translating them into actionable technical plans aligned with existing system infrastructure.
- Directed UI/UX efforts based on evolving client needs; provided day-to-day technical directions to UI/UX and developer.
- Architected and developed scalable web applications, including multi-company websites and internal workflow systems.
- Built an all-in-one admin panel to manage visa processes, worker tracking, and internal accounting workflows, reducing manual processing time by 60%.
- Conducted continuous research and planning for infrastructure improvements, feature enhancements, and performance optimization.
- Managed deployment within a single-host standalone environment using cost-effective strategies and shared server infrastructure.

### AI Software Developer (capstone project)

Botree Inc., Ontario, Canada

Jan 2024 - Apr 2024

- Collaborated with a Georgian client as part of a capstone project, dedicating ~8 hours/week.
- Designed and deployed AI-powered learning modules using React, Django, OpenAI models, LangChain, and Pinecone.
- Built an architecture based on Retrieval-Augmented Generation (RAG), improving content delivery efficiency.

### Node JS Developer (hybrid)

Proshore Nepal Pvt. Ltd., Kathmandu, Nepal

May 2021 - Sept 2023

- Developed scalable B2B and B2C web applications utilizing various JavaScript frameworks.
- Conducted continuous research and planning for infrastructure improvements, feature enhancements, and performance optimization.
- Managed server deployment, improved CI/CD using Bitbucket and GitLab to reduce deployment time by 40%.
- Initiated update of lambda functions of old application to the latest version which improved code quality and reduced urgent issues request by 20%.
- Integrated Salesforce & HubSpot API to automate data synchronization for an e-commerce platform, reducing manual tasks 40%.
- Mentored junior developers, conducted peer reviews, and led Scrum meetings to ensure on-time project delivery.
- Built XML parsers to facilitate seamless data sharing across multiple platforms, reducing processing time by 70%.

### Node JS Developer (on-site)

Esignature Pvt. Ltd., Kathmandu, Nepal

Dec 2019 - May 2021

- Worked on full stack web development, their codebase architecture, and database design, planning and critical analysis.
- Implemented ETL to the data scraped from different e-commerce and social platforms to develop analytical web applications.

- Conducted unit and API testing with Mocha and Chai, improving test coverage by 25%.

### Software Trainee (on-site)

Palmmind IT Consultancy, Kathmandu, Nepal

Oct 2018 - July 2019

- Built web applications using MEAN stack under guidance of project leads.
- Developed chatbots for Banking and Commercial sectors using Dialogflow.
- Assisted in debugging and troubleshooting issues related to HTML, CSS, JavaScript, and Loopback frameworks.

### Education

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Georgian College / Ontario, Canada

- Graduate Certificate in Big Data Analytics (*Dean's List*)
- Graduate Certificate in Artificial Intelligence (*Dean's List*)

Sept 2024 - Apr 2025

Sept 2023 - Apr 2024

Kantipur Engineering College / Lalitpur, Nepal

- Bachelor of computer engineering

Sept 2014 - Oct 2018

### Training & Certifications

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- SAS Viya Overview | Issued by SAS in Apr 2025
- TensorFlow: Practical Skills in Constructing, Training, and Optimizing Models | Issued by LinkedIn Learning in Jan 2025
- AWS Academy Data Engineering | Issued by AWS in Oct 2024
- AWS Academy Machine Learning Foundations | Issued by AWS in Apr 2024
- AWS Academy Cloud Foundations | Issued by AWS in March 2024
- SAS Programming 1: Essentials | Issued by SAS in Sept 2023

### Recent Highlights

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- **Personal Portfolio Website** – Designed and developed a fully responsive portfolio using React, Redux, and React Query; deployed on [Netlify](#) for fast and reliable hosting.  
*GitHub:* [aacict/aacict](#)
- **AI & Machine Learning Projects** – Curated collection of hands-on projects demonstrating practical applications of regression, deep learning, computer vision, and natural language processing. Technologies include Python, Scikit-learn, TensorFlow, Keras, and OpenCV.  
*GitHub:* [aacict/AI-Machine-Learning](#)
- **Crime Data Analytics** – Academic major project featuring detailed exploratory data analysis and clustering on Canadian crime datasets to uncover patterns, along with predictive modeling and interactive visualizations using Python and Power BI.  
*GitHub:* [swekriti12/Crime-Statistics](#)

### References

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Teena Pool Sauve ([teena@botreeinc.com](mailto:teena@botreeinc.com)) / Co- Founder, Senior Advisor @ Botree Inc.

Milan Khanal ([milan.profession@gmail.com](mailto:milan.profession@gmail.com)) / Sr. Project Manager @ Proshore Nepal Pvt. Ltd.

\*\*\* Have a driving License and willing to relocate if needed \*\*\*