

# Oshan Shrestha

## Software Engineer

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Result-driven backend engineer specializing in building scalable, efficient and robust distributed systems. Proficient in designing and implementing databases, APIs, both in microservices as well as monolithic architecture using Node.js, Go, Python & Java. Collaborative team player committed to delivering high-quality and maintainable code. Dedicated to staying updated with the latest technologies and industry trends for cutting-edge backend development.

## Skills

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**Backend** – gRPC, FastAPI/ExpressJs, MongoDB, DynamoDB, MySQL, Redis, SQLAlchemy, Docker, Kubernetes,

Temporal, Kafka, Apache Flink, AWS | **Frontend** – NextJs, SCSS, Tailwind, Ant Design, Figma, Vite/Parcel, Vercel |

**Languages** – Python, Go, Java, NodeJs

## Experiences

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### Backend Engineer, Gepsr Pvt. Ltd.

04.2023 – present

Kathmandu, Nepal

- Monitor, maintain, update & optimize backend architecture, business logic & APIs according to the evolving specifications, growing target demographic and in-line with team-goals.
- Designed and implemented new services to the cluster in order to handle new requirements.
- Maintaining very high-traffic Apache Flink pipelines for fault tolerance and scale. Carry-out R&D on distributed data pipeline for resiliency and better durability.
- Designed LLM-powered transformation layer to process streaming data with Kafka.
- Developed & maintained Kubernetes job orchestrator with Temporal for fault-tolerance.
- Handled strategic migration of workloads into event pipeline for visibility and optimization.
- Proactively participating in emergency response team to quickly respond to, debug and resolve customer issues.
- Handled integration of third-party tools like Jira and HubSpot to meet the needs of inter-departmental productivity tooling.
- Involved in researching and analyzing different internal as well as third-party tools in order to integrate them in our architecture efficiently and to reduce technical debt.

### Software Developer, Burgeon Tech Pvt. Ltd.

12.2020 – 02.2023

Dhulikhel, Nepal

- Designed and implemented user-facing interfaces that aligned with the product vision and business goals while enhancing user experience.
- Utilized modern frontend frameworks such as React and NextJS along with CSS-in-JS libraries such as Styled-Components.

## Education

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### B.Sc. Computer Science, Kathmandu University

08.2018 – 07.2023

(Electives: Machine Learning, Information Security)

Dhulikhel, Nepal

## Certificates

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**AWS Certified Solutions Architect** – The AWS Certified Solutions Architect certification demonstrates expertise in designing and deploying scalable, highly available systems on AWS. It covers key services like EC2, S3, RDS, and VPC, focusing on cost optimization, security, and best practices for cloud architecture.

**AWS Educate Machine Learning Foundations** – Completed AWS Educate's foundational ML training, covering core concepts, data preparation, model training, evaluation, and deployment using AWS services such as SageMaker.

**Machine Learning with Python - FreeCodeCamp** – Comprised roughly 300 hours of hands-on TensorFlow training to build & evaluate neural networks for image classification, recommendation engines, NLP, and reinforcement learning