Amrit Jung Karki

FullStack Developer | 3+ Years of Experience

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Proven Software Engineer with over 3 years of experience in designing and implementing scalable, high-performance software solutions. My expertise includes designing scalable distributed systems, optimizing backend performance, and building production-grade full-stack solutions that support high-availability, real-time, and data-intensive enterprise applications.

EXPERIENCE

Software Engineer (Remote-Contract)

Delaware, USA

John Snow Labs

Jan, 2025 - Present

- **Backend Modernization & Performance Optimization**: Developed scalable healthcare backend services using FastAPI, NestJS, RabbitMQ, Redis, Elasticsearch, and SSE streaming, improving real-time response performance, increasing system throughput, and supporting reliable concurrent conversational and clinical data workflows.
- **Clinical Data Engineering & Analytics**: Engineered OMOP CDM-aligned PostgreSQL database schemas, complex cohort query logic, and dynamic SQL pipelines, cutting cohort query turnaround times by 3% and accelerating longitudinal patient analysis by 10ms.
- **Enterprise Full-Stack Development**: Built high-performance healthcare analytics interfaces using React, TypeScript, Redux Toolkit, and Monaco SQL editor with streaming UI patterns, which improved analyst productivity and lowered UI latency by 25%.
- **Cloud Infrastructure & DevOps Automation**: Deployed cloud-native applications and SageMaker-oriented NLP workflows utilizing Docker, Helm, Kubernetes, HashiCorp Packer, AWS, and distributed middleware, decreasing deployment time by 12% while improving environment consistency and release reliability.

Software Engineer (Remote-Contract)

British Virgin Islands

Dimitra Incorporated

Oct, 2024 - Feb, 2025

- **Agricultural Intelligence & Livestock Management**: Engineered AI-powered assessment and livestock management tools within the core platform, adding history tracking for assessment builders and updates to improve data traceability and platform capability.
- **UI Performance & User Engagement**: Upgraded front-end application performance and user interfaces, reducing UI render latency by 5ms to boost user traction, responsiveness, and interaction with analytics dashboards.
- **Workflow Automation & Dashboard Engineering**: Implemented comprehensive user dashboards, monitoring modules, and background job automations to streamline multi-stage agricultural data processing and real-time monitoring.

Full Stack Developer

Lalitpur

Suvaye Technology

Jan, 2022 - Jan, 2024

- Built a comprehensive startup incubation, bidding and managing platform (i.e Investiaa Nepal).

EDUCATION

Bachelors Of Engineering In Information Technology

Balkumari, Lalitpur

Nepal College of Information Technology

Jul, 2019 - Aug, 2024

As I complete my engineering degree with a 3.86 CGPA, I've built a strong foundation in computer science and related technologies.

ACHIEVEMENTS

NAS IT Awards 2024 (Best Student Project of the Year 2024)

- Recognized as the best student project of 2024 for the development of Vayu, an IoT-based distributed system for air quality data collection and monitoring.
- Representation at APICTA Awards, Brunei.