

Anuj Karn

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Summary

- Software Engineer with expertise in full-stack development, system optimization, and technical leadership.
- Skilled in Python, JavaScript/TypeScript, Go, React, Next.js, Docker, AWS, with track record of reducing costs by 60% and improving performance by 50%.
- Experienced in architecting secure, scalable solutions across healthcare, construction management, and SaaS platforms.

Experience

Software Engineer

Upstem Technologies

Sydney, Australia

Aug 2023 – Dec 2024

- Implemented Docker containerization and improved CI/CD workflows, reducing deployment time by 50% and AWS costs by 60% through compute resource optimization.
- Engineered video streaming solution using AWS Media Convert, decreasing loading times by 60% and significantly enhancing feed performance.
- Refactored workforce management system using Bun/Hono & PostgreSQL, ensuring GDPR compliance for handling candidate personal data.
- Implemented role-based access control using Casbin, complemented by custom resource-based permission delegation for business logic-driven data access control.
- Led a team of 5-7 developers, managing development planning, architecture reviews, and direct stakeholder collaboration.

Software Engineer

Leapfrog Technology

Kathmandu, Nepal

Sep 2021 – Aug 2023

- Developed complex inventory tracking system for construction supply chain using Go (Gin, Goqu) and Next.js, reducing material tracking errors by implementing robust bulk import and status tracking features.
- Built HIPAA-compliant healthcare appointment booking platform with multilingual support, decreasing form completion time by implementing intuitive user interfaces.
- Integrated Mapbox address auto-suggestion with custom logic for hard-to-find locations, reducing address entry time by 40% and improving user satisfaction.
- Customized MS Dynamics CRM using C# plugins and Dataverse schemas, delivering secure multi-tenant solutions that met client-specific workflows.
- Promoted from Associate to Software Engineer within 10 months for consistently delivering high-quality code and technical solutions.

Software Engineer

Sunya Health Solutions

Kathmandu, Nepal

Nov 2019 – Sep 2021

- Enhanced computer vision algorithms for urine strip analysis using OpenCV and Python, increasing diagnostic accuracy by 10-15% and reducing manual interpretation errors.
- Engineered HIPAA-compliant offline data synchronization for Android health screening app, enabling 100% functionality in remote areas with limited connectivity.
- Integrated local payment gateways (Khalti, eSewa) into Django/React applications, increasing transaction completion rates by 30% through familiar payment options.
- Designed subscription-based revenue models for digital health products, resulting in 25% increased recurring revenue and improved customer retention.

Education

University of London, UK

B.Sc. (Hons) in Computer Science (Data Science Specialization)

Oct 2020 - Mar 2025

Skills

Programming: Python (Django, FastAPI), JavaScript/TypeScript (React, Next.js), Go (Gin), Node.js (Express, Hono), Kotlin (Android), C# (Dynamics)

Infrastructure: Amazon Web Services (EC2, ECS, App Runner, Lambda, S3, RDS, IAM, Media Convert), Docker, CI/CD, PostgreSQL, MySQL, MSSQL

Other: GDPR & HIPAA Compliance, Auth0, Casbin, Stripe, GraphQL, OpenCV, Agile (Scrum/Kanban), Technical Leadership