

Khadga Bahadur Shrestha

Senior Software Engineer (Mobile, Web & DevOps)

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Profile

Software Engineer with 7 years of experience in developing mobile and web applications, now focusing on DevOps and cloud infrastructure engineering. Skilled in designing scalable, secure, and efficient systems by bridging development and operations through automation, containerization, and cloud-native solutions. Experienced in architecting applications using Flutter, React, Node.js, and deploying modern workloads with Kubernetes, Docker, Terraform, and AWS. Passionate about building systems that are clean in architecture, reliable in production, and simple to maintain.

Professional Experience

Senior Software Engineer | Port Pro

Aug 2024 – Present | Lalitpur, Nepal

Designed and automated infrastructure with Terraform, Helm, and Kustomize for consistent deployments. Built CI/CD pipelines using GitHub Actions and Jenkins for microservices on AWS ECS (Fargate & EC2). Optimized containers reducing image size by 80%, improved deployment speed. Configured New Relic and CloudWatch for observability, and led cloud reliability and performance efforts.

Software Engineer (Mobile & Web) | Port Pro

Oct 2021 – Jul 2024 | Lalitpur, Nepal

Developed the company's core mobile application using Flutter with Clean Architecture and TDD. Automated release pipelines for Android and iOS with CI/CD integration. Created reusable UI frameworks, optimized rendering and state management. Built full-stack features using React.js and Node.js; mentored junior developers.

Software Developer | Parentiv

Jan 2019 – Sep 2021 | Remote

Built a Flutter app for child care and special needs management using Firebase. Architected backend with Cloud Functions and Firestore; implemented CI/CD automation. Migrated admin dashboard from React.js to Flutter Web.

Software Developer | Deltatech Nepal

Mar 2016 – Dec 2018 | Biratnagar, Nepal

Developed responsive web and e-commerce applications using JavaScript, HTML/CSS, and REST APIs. Delivered full-cycle software solutions for local and international clients.

Education

Bachelor in Computer Science and Information Technology (BSc CSIT) — Tribhuvan University, Biratnagar (2016 – 2020)

Technical Expertise

DevOps & Cloud: AWS (ECS, EC2, S3, CloudFront, API Gateway), Docker, Kubernetes, Terraform, Helm, Kustomize

CI/CD & Automation: GitHub Actions, Jenkins, AWS CloudFormation, IaC, Automated Deployment

Mobile Development: Flutter, Dart, Clean Architecture, TDD, State Management

Web Development: React.js, Node.js, Express.js, REST APIs, Firebase

Databases: PostgreSQL, MongoDB, Firebase Firestore, Redis, BigQuery, TimeScale

Monitoring & Reliability: New Relic, AWS CloudWatch, Prometheus

Security & Infrastructure: IAM, Secrets Management, DR Planning, System Hardening

Certifications

- AWS Certified Solutions Architect – Associate
- AWS Certified Cloud Practitioner
- Kubernetes for the Absolute Beginners (Hands-on)
- MongoDB CRUD Operations in Node.js
- Terraform Basics Training
- AWS Educate: Introduction to Cloud 101