

# Bishal Sarangkoti

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## Summary

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**Full Stack Engineer** with **over 4 years of experience** delivering high-quality, scalable web applications in remote environments. Proficient in front-end and back-end technologies, including **React.js**, **Node.js**, **NestJS**, and **TypeScript**, with expertise in designing **microservices** and **event-driven architectures** to enhance performance and maintainability. Adept at utilizing AWS services such as **Lambda**, **DynamoDB**, **EventBridge**, **SQS**, **SNS**, and **QuickSight** to develop robust, cloud-native solutions. Author of notable open-source projects, "**Recursion Tree Visualizer**" and "**LeetCode Questions Scraper**," demonstrating a passion for innovative problem-solving and contributions to the developer community. Experienced in collaborating with cross-functional teams to analyze requirements, estimate projects, and deliver solutions aligned with business goals. Committed to continuous learning and staying current with industry advancements.

## Experience

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### Plerion | Remote, Australia

#### Full Stack Software Engineer

November 2023–November 2024

- Collaborated with the product owner, analyzing requirements and estimating projects to align with development goals.
- Orchestrated AWS services (Lambda, DynamoDB, EventBridge, SQS, SNS, RDS, Aurora, Step Functions) for scalable cloud solutions.
- Leveraged AWS QuickSight to create insightful reports and dashboards, enabling data-driven decisions.
- Utilized TypeScript, React, Node.js, and Serverless Framework, adhering to best practices for robust applications.
- Contributed to micro-frontends, microservices, and event-driven architectures, optimizing scalability, performance, and maintainability.
- Optimized multi-region SaaS platform login, reducing authentication time from 10s to 3s, enhancing UX.
- Spearheaded UI/UX improvements for authentication, audit logs, alerts, user management, and offboarding workflows.

### Leapfrog Technology | Remote, Kathmandu

#### Senior Software Engineer

July 2023 – November 2023

- Contributed to an insurance and payment platform, integrating with third-party services like Plaid and Treasury Prime to enable secure financial transactions.
- Leveraged expertise in React, TypeScript, .NET, Auth0, and Twilio to deliver full-stack solutions as a well-rounded developer.

### Leapfrog Technology | Remote, Kathmandu

#### Software Engineer

January 2022 – July 2023

- Actively participated in the full project lifecycle - design, development, estimation, code reviews, testing, optimization, deployment, and client communication.
- Conducted knowledge-sharing sessions and comprehensive training for seamless onboarding of new developers.
- Proactively enhanced codebase maintainability and productivity through Javadocs, SchemaSpy Docs, Swagger Docs, and resolving Sonarqube issues.
- Optimized error handling, logging, and notifications by integrating CloudWatch and OpenSearch, improving reliability and monitoring.
- Spearheaded research and POCs for polyglot feature (GraalVM), ALB authentication (Okta), LDAP integration, CxSmile rendering, and cross-account sharing for AWS resources (OpenSearch with Java STS SDK).

### Leapfrog Technology | Remote, Kathmandu

#### Associate Software Engineer

September 2020 – January 2022

- Contributed as a full-stack developer for a major biomedical company in the USA, spanning requirement analysis to feature delivery, utilizing JavaScript, Java, Postgres, and Lit Element
- Developed robust RESTful APIs using Micronaut and intuitive UIs with Lit Element for biomedical applications.

### Programiz PRO | Remote, Kathmandu

#### Freelance Technical Writer

September 2021 – December 2021

- Researched, collaborated, and wrote clear, step-by-step C++ tutorials for <https://www.programiz.com/>, breaking down complex concepts for diverse audiences while optimizing for search engines through relevant keywords and SEO best practices.

## Skills

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- **Programming Languages:** JavaScript, Typescript, Java, C#
- **Front-End Technologies:** HTML, CSS, ReactJs, TailwindCSS, Lit Element, Web components
- **Back-End Technologies:** NodeJs, Express Js, NestJS, Micronaut
- **Databases:** MySQL, PostgreSQL, DynamoDB
- **Cloud Services:** AWS (Lambda, Step Function, S3, Event Bridge, SQS, SNS, Amazon Quicksight, EC2, Codebuild, Codepipeline, OpenSearch), Serverless Framework
- **Tools:** Docker, Git, Okta

## Projects

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- **Recursion Tree Visualizer:** A widely adopted python tool designed to visualize recursion trees, aiding developers and learners in mastering recursive algorithms.  
[GitHub Link](#)
- **LeetCode Questions Scraper:** An efficient scraper that collects and organizes LeetCode questions for offline usage.  
[GitHub Link](#)

## Education

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### Kathmandu University

Computer Engineering | 12/2020

### St. Xavier's College | Kathmandu

Plus Two | 12/2016