

Rishab Sharma

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SUMMARY

AWS Backend Engineer & Full-Stack JavaScript Developer with 2+ years of experience building scalable cloud applications, distributed processing systems, and modern React/Next.js frontends. Skilled in AWS serverless architecture, NestJS microservices, queue-based background jobs (BullMQ + Redis), CI/CD pipelines, and high-performance backend APIs. Strong ability to architect cloud systems using EC2, ECS, Lambda, DynamoDB, and AppSync.

TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, TypeScript, SQL, HTML, CSS
- **Backend Frameworks:** Node.js, Express.js, NestJS, Django, REST APIs, GraphQL (AWS AppSync)
- **Frontend:** React.js, Next.js, Redux Toolkit, React Query (TanStack), TailwindCSS, TypeScript
- **CMS:** Sanity CMS
- **Cloud & DevOps:** Docker, AWS EC2, ECS, Lambda, API Gateway, DynamoDB, S3, SQS, SES, AppSync, Amplify, IAM, CloudWatch, AWS IoT
- **CI/CD:** AWS Amplify, GitHub Actions
- **Databases:** PostgreSQL, MySQL, MongoDB, DynamoDB
- **Tools & Others:** Prisma ORM, Redis, BullMQ, Nodemailer, OAuth, Git, JWT, Argon2 Hashing, XAMPP, Sanity CMS

Work Experience

Nepal Digital Systems, Kathmandu

December 2025 – Present

Back End Developer

- Developing and maintaining scalable IoT backend systems using AWS IoT Core, enabling real-time device data ingestion and cloud communication.
- Building high-performance microservices with NestJS and TypeScript, deployed on Amazon ECS and Fargate for containerized, auto-scaling workloads.
- Architecting cloud infrastructure on Amazon EC2, ECS, and Amazon S3 to support distributed backend operations.
- Implementing real-time communication features via WebSocket for live data streaming and event-driven interactions.
- Managing MongoDB databases for flexible, high-throughput data storage with optimized query performance
- Containerizing services with Docker and orchestrating deployments across cloud environments.

Gurkha Strategy, Kathmandu

July 2024 – Present

AWS Backend Development Engineer/ React Developer

- Developed and maintained serverless applications using AWS Amplify with React.js and Next.js, reducing deployment time and streamlining project integration.
- Designed and implemented Lambda functions in Python and Node.js to manage backend operations, leading to improved processing efficiency.

- Leveraged AWS Amplify CLI for project scaffolding, cloud resource management, and CI/CD pipeline integration.
- Configured and optimized DynamoDB tables to support scalable, high-performance data storage solutions.
- Built and maintained GraphQL APIs with AWS AppSync for real-time data processing and efficient data retrieval.
- Integrated RESTful and GraphQL APIs on the frontend using Axios and Context API, enhancing user experience.
- Leveraged Redux and React Query for efficient state and data fetching.
- Actively participated in agile ceremonies, including sprint planning, backlog grooming, and retrospectives.

Silverline Integrators, Kathmandu

July 2023 – June 2024

AWS Backend Development Engineer/ React Developer

- Developed serverless applications using AWS Amplify, React.js, and Next.js, enhancing deployment efficiency.
- Designed and executed Lambda functions in Python and Node.js for backend logic triggered by API Gateway events.
- Managed cloud resources and deployments via the AWS Amplify CLI, contributing to robust CI/CD pipelines.
- Configured DynamoDB tables to optimize data retrieval and scalability.
- Built GraphQL APIs with AWS AppSync, ensuring efficient data fetching and manipulation.
- Implemented Redux for state management, resulting in improved code modularity and maintainability.
- Collaborated in agile team settings to ensure timely and quality deliverables.

General Technology, Kathmandu

Oct 2022- Jan 2023

React JS Internship

- Collaborated with the design team to create visually appealing and user-friendly web applications using React.js.
- Developed a website using React hooks and state management, enhancing overall user engagement and performance.
- Debugged and optimized the existing codebase, resulting in improved application efficiency.
- Participated in code reviews and integrated feedback to raise code quality and consistency.
- Assisted in API integrations, state management, and routing implementations.

Education

BIT Herald College Kathmandu

May 2019 - Jun 2022

BACHELORS IN INFORMATION TECHNOLOGY

Grade: First Class Honours

Relevant Coursework: Object Oriented Programming, Databases, Discrete Mathematics, Data Structures & Algorithms, Operating Systems, UI/UX Design, Computer Networks, Machine Learning, Big Data, Image Processing

Project Work

OpenTickets - opentickets.io

A SaaS ticketing platform with multi-tenant architecture

- Designed and implemented OpenTickets, a scalable SaaS ticketing platform supporting multiple clients with dedicated admin portals.
- Developed robust backend logic using AWS Amplify and Lambda functions in Python and Node.js.
- Utilized DynamoDB for high-performance data storage and GraphQL APIs via AWS AppSync for real-time data fetching.
- Managed CI/CD pipelines with AWS Amplify CLI, ensuring seamless deployment and integration with React.js components.

Page Pavilion – page-pavilion.vercel.app

Library management system with admin dashboard

- Created a full-stack library management system using Next.js, TypeScript, and PostgreSQL, featuring both a public-facing application and an admin dashboard.
- Implemented advanced functionalities including automated book borrowing, reminders, and receipts, with robust user management and automated workflows.
- Integrated Redis for caching and Auth.js for secure authentication, ensuring scalability and optimized performance.

MERN Real Estate Project - mern-estate-c43v.onrender.com

A real estate listing platform built using the MERN stack

- Developed a comprehensive real estate web application using the MERN stack (MongoDB, Express.js, React.js, Node.js).
- Built a responsive UI with React and implemented RESTful APIs using Express.js, resulting in efficient data management.
- Enhanced state management using Redux, ensuring secure data transactions and improved user interactions.

NuAndroids – nuandroids.com

Official event website for NuAndroids

- Developed and integrated **Sanity CMS** for dynamic event content, blog posts, and media updates.
- Enabled seamless client-side editing and real-time publishing.
- Contributed to maintaining performance and responsiveness across devices.

Hospital Management System

Healthcare scheduling and voice assistant integration

- Developed a hospital management system using Python (Django) incorporating a voice assistant feature via the Google Calendar API and MySQL database.
- Streamlined appointment scheduling and patient data management, resulting in improved operational efficiency.

Bulk Email Processor – NestJS + Next.js + Redis Queue

GitHub: <https://github.com/Rishabsrma/Bulk-Email-Processor>

A high-performance bulk email sending system capable of processing thousands of emails using background queue workers.

- Upload Excel/CSV file with email list.
- Choose an email template.
- Emails are sent automatically in background.
- Uses BullMQ + Redis job queue so the server never overloads.
- Real-time job status and progress tracking.