Sandesh Prasad Paudel

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Professional Summary

Software Engineer with professional experience in backend development, scalable API design, cloud infrastructure deployment, and DevOps automation. Skilled in Node.js, Express.js, TypeScript, Redis, Docker, AWS cloud services, CI/CD pipelines, and Infrastructure as Code. Currently working as an Academic Tutor teaching programming fundamentals, object-oriented programming, and GUI application development while delivering lectures to 100+ students.

Technical Skills

Languages: Java, Python, JavaScript, TypeScript
Backend Development: Node.js, Express.js, REST APIs, JWT Authentication
Frontend Development: React.js, Next.js, Redux, HTML, CSS
Cloud and DevOps: AWS EC2, AWS S3, AWS CloudFormation, Docker, GitHub Actions, CI/CD Pipelines, SonarQube
Databases: MySQL, MongoDB, OracleDB, Redis
Tools: Git, GitHub, Linux, Postman, VSCode, Figma
Other: Infrastructure as Code, API Testing, System Design, Database Optimization, Backend Architecture, Caching

Professional Experience

Academic Tutor August 2025 – Present
Islington College Kathmandu, Nepal

- Teach programming fundamentals including Java and Python programming.
- Deliver lectures on Object-Oriented Programming concepts including inheritance, polymorphism, abstraction, and encapsulation.
- Teach GUI application development using Java Swing and event-driven programming.
- Conduct lectures and academic sessions for classes consisting of more than 100 students.
- Mentor students in debugging, software development practices, and practical coding exercises.
- Prepare technical teaching materials and conduct tutorial and lab sessions.

Backend Developer August 2024 – July 2025
Muktinath Itech Company Kathmandu, Nepal

- Developed backend services for a Greenhouse Automation System using Node.js, Express.js, and TypeScript.
- Built REST APIs for communication between IoT devices and web applications.
- Implemented Redis caching to improve backend performance and reduce database load.
- Developed backend architecture for monitoring temperature, humidity, and lighting automation.
- Tested APIs using Postman for reliable frontend-backend integration.
- Collaborated with frontend developers to ensure seamless API integration.

Technologies Used: Node.js, Express.js, TypeScript, Redis, Postman

Frontend Intern August 2023 January 2024
Soori Solutions Pvt. Ltd. Kathmandu, Nepal

- Developed backend server logic for handling API requests.
- Built doctor filtering functionality and appointment booking features.
- Implemented frontend pages using React.js and Redux.
- Integrated frontend with backend APIs for healthcare application workflows.

Technologies Used: React.js, Redux, Node.js, Figma

Projects

Cloud Portfolio Infrastructure Deployment System
github.com/MrSandSort/Portfolio-Website

- Built portfolio application using Next.js with production-grade AWS cloud deployment.
- Implemented Infrastructure as Code using AWS CloudFormation.
- Automated CI/CD deployment pipelines using GitHub Actions and Docker.
- Provisioned AWS infrastructure including EC2 instances, S3 buckets, and networking resources.
- Integrated SonarQube for automated code quality analysis and static code scanning.

Technologies Used: Next.js, AWS EC2, AWS S3, AWS CloudFormation, Docker, GitHub Actions, SonarQube

JWT Authentication Backend System
github.com/MrSandSort/jwt-auth

- Built secure authentication system using JWT.
- Implemented password reset and email verification using Nodemailer.
- Designed MongoDB schema for scalable user management.
- Applied TypeScript for maintainable backend architecture.

Technologies Used: Node.js, Express.js, MongoDB, TypeScript, Nodemailer

Restaurant Cuisine Redis Implementation
github.com/MrSandSort/Redis-Implementation

- Implemented Redis caching layer to reduce repeated database queries.
- Improved application response time and backend performance.
- Built scalable backend services using Node.js and TypeScript.

Technologies Used: Redis, Node.js, TypeScript

Education

MSc Infrastructure and Operations September 2025 – Present
Islington College, Kathmandu Affiliated with London Metropolitan University

BSc (Hons) Computing 2021 – 2024
Islington College, Kathmandu

Higher Secondary Education (+2) 2019 – 2021
National School of Sciences, Kathmandu

Secondary Education Examination (SEE) 2019
Brightland Higher Secondary School, Nepalgunj

Certifications

- MERN Stack Development – Mindrisers Consortium Pvt. Ltd. (2023)
- Git and GitHub Basics – Udemy (2024)
- DevOps Training – Deerwalk Training Center (2025)