

# NRIPESH BHUSAL

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## Professional Summary

Backend-focused full-stack developer with hands-on experience building and deploying production-style MERN applications. Strong in REST API design, JWT authentication, role-based access control, database modeling, and backend testing. Experienced in debugging, performance optimization, and collaborating across frontend and backend teams.

## Experience

### Atomxel

June 2025 – August 2025

Software Development Intern (Flutter)

Noida, India

- Developed and shipped **10+ production UI screens** for a live mobile application used by internal test users.
- Architected secure token-based authentication flows by connecting **10+ REST API endpoints**, improving user login performance by **20%** and ensuring **zero downtime** for critical features.
- Reduced API integration bugs by **30%** through systematic Postman testing and request validation.
- Debugged and resolved **25+ frontend-backend data flow issues** by collaborating with backend engineers.
- Optimized widget rebuild cycles, improving app performance and reducing render lag by **20%**.

## Projects

### Full-Stack Blog Application & Portfolio | MongoDB, Express, React, Node.js, JWT, Jest

Deployed

- Designed and implemented **25+ RESTful API endpoints** following MVC architecture for users, blogs, roles, and permissions.
- Built secure **JWT-based authentication** with **3-level role-based access control** enforced via middleware.
- Structured MongoDB schemas handling **100+ test records** with indexing for optimized query performance.
- Added **unit and integration tests** using Jest, achieving **70%+ coverage** on critical routes.
- Prevented **100% unauthorized access** to protected routes through centralized RBAC guards.
- Deployed frontend on Vercel and backend on Render with environment-based configuration and CI-ready scripts.
- Optimized query pipelines and middleware chains, reducing average API response time by **35%**.

## Technical Skills

**Languages:** JavaScript (ES6+), C++, Dart, HTML, CSS

**Backend & Frameworks:** Node.js, Express.js, React, MongoDB, Jest, Flutter

**Databases & APIs:** REST API design, JWT authentication, Role-Based Access Control (RBAC)

**Developer Tools:** Git, GitHub, Postman, VS Code, Vercel, Render

## Leadership / Technical Activities

### Full Stack Open Certification

2025

University of Helsinki

Online

- Completed the Full Stack Open curriculum covering **React, Node.js, Express, MongoDB, REST APIs, and testing**.
- Built and deployed multiple full-stack applications following **modern web architecture practices**.
- Learned production-grade patterns including **authentication, state management, and API design**.

### ACPC Competitive Programming Tournament

2025

First Prize Winner

ABES Engineering College

- Secured **1st place** among **100+ participants** in an on-site competitive programming contest.
- Solved algorithmic problems under strict time constraints using **C++ and optimized data structures**.

## Education

### Jamia Millia Islamia

Aug. 2024 – Aug 2028

Bachelors in Computer Engineering

New Delhi, Delhi