

JAYESH THAPA MAGAR

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SUMMARY

Software Engineering student with hands-on experience building and testing full-stack web applications using TypeScript, React, NestJS, and MongoDB. Experienced with REST APIs, Jest, GitHub pull requests, CI checks, and collaborative code review.

EDUCATION

The University of Texas at Arlington

Expected Spring 2028

B.S. in Software Engineering

- Honors: UTA Maverick Academic Scholarship; Freshman Distinction Roll
- Relevant Coursework: Algorithms and Data Structures, Object-Oriented Programming, Intermediate Programming, Computer Organization and Assembly

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, C

Frontend: React, HTML5, CSS3, Responsive Design

Backend: Node.js, NestJS, Express.js, REST APIs, DTO Validation, JWT Authentication

Databases: MongoDB, Mongoose, MongoDB Atlas, Schema Design

Testing & Tools: Jest, Postman, Git, GitHub, CI Workflows, VS Code, Command Line

PROJECTS

VetRanker — Veterinary Ranking Platform

2025 – Present

Backend Developer

- Implemented and tested NestJS REST API functionality with MongoDB/Mongoose, DTO validation, consistent error handling, and reusable controller-service architecture
- Wrote Jest unit tests for backend services, including mocked Mongoose operations and coverage for create, list, update, delete, not-found, and duplicate-route behaviors
- Used Postman and local admin/public clients to verify API contracts, diagnose malformed requests, and prevent invalid data from reaching MongoDB
- Collaborated through GitHub pull requests, code reviews, rebasing, CI checks, and merge-conflict resolution; incorporated senior developer feedback before merging changes

Full-Stack Internship Tracker

2026

Personal Project

- Built a React-based application with a Node.js/NestJS and MongoDB backend for creating, updating, deleting, and tracking internship applications and statuses
- Debugged frontend-backend integration issues, including inconsistent field names and API payloads, and aligned schemas and UI behavior across the stack

Doctor Appointment Booking Web Application

2025

Full-Stack Developer

- Developed a responsive React frontend and NestJS/MongoDB backend for appointment scheduling and patient record management
- Implemented authentication using JWT tokens and bcrypt password hashing and organized backend logic using NestJS modules, controllers, and services

ADDITIONAL EXPERIENCE

Software Engineering Coursework — University of Texas at Arlington

2024 – Present

- Applied object-oriented programming, data structures, algorithms, recursion, sorting, searching, memory management, and complexity analysis in Java and C assignments