Manoj Choppa

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PROFESSIONAL SUMMARY

Backend-focused Computer Science student experienced in building scalable server-side systems using NodeJS, TypeScript, and MySQL. Skilled in REST API development, authentication systems, database optimization, performance tuning, and Git-based collaboration. Thrive in startup environments and take ownership of backend architecture and debugging.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python
Backend: NodeJS, ExpressJS, REST APIs
Database: MySQL, Schema Design, Indexing, Query Optimization
Version Control: Git, GitHub
Concepts: Scalable Architecture, MVC Pattern, JWT Authentication, Middleware Design, API Integration, Performance Optimization
Tools: Postman, Linux, VS Code

PROJECTS

Email Outreach Automation System

- Designed scalable backend APIs for managing outbound email campaigns.
- Implemented campaign scheduling, lead tracking, and automation workflows.
- Integrated third-party email APIs with retry and logging mechanisms.
- Designed optimized MySQL schema with indexing for faster analytics queries.
- Implemented JWT authentication and role-based access control.

Scalable URL Shortener with Analytics

- Built URL shortening service with click tracking and analytics endpoints.
- Optimized database queries to reduce API response latency.
- Implemented rate limiting middleware to improve backend stability.

Authentication & Role-Based Access Control API

- Developed secure login system using JWT and bcrypt password hashing.
- Designed role-based middleware for protected route handling.
- Wrote unit tests to reduce regressions and ensure code stability.

INTERNSHIP EXPERIENCE

Cyber Privilege – Digital Forensics Intern   *Aug 2025 – Nov 2025*

- Analyzed large system logs and automated data extraction using scripting.
- Assisted in debugging and structured documentation processes.
- Contributed to identifying performance and system bottlenecks.

Redynox – Cyber Security Intern   *Jun 2025 – Jul 2025*

- Worked in collaborative Git-based development workflow.
- Assisted in backend debugging and system performance analysis.
- Documented technical findings and recommended optimization improvements.

NullClass – Cyber Security Intern   *May 2025 – Jul 2025*

- Participated in structured testing and issue resolution exercises.
- Practiced systematic debugging and documentation methodologies.

TESTING & DEVELOPMENT PRACTICES

- Followed modular folder structure and clean architecture principles.
- Used Git branching strategies (feature branches, pull requests, merge reviews).
- Performed debugging, logging, and performance profiling.
- Applied REST API best practices and proper error handling techniques.

DEPLOYMENT & SYSTEM EXPERIENCE

- Deployed backend applications in Linux-based environments.

- Configured environment variables and managed secure configurations.

- Validated APIs using Postman and conducted integration testing.

EDUCATION

B.Tech – Computer Science (Cybersecurity) 2023 – 2027

Vignan's Institute of Information Technology