Murali Aggipothu

Full-Stack Developer — B Tech Computer Science Student

muraliaggipothu@gmail.com   +91-62813-73180   Portfolio   Github   LinkedIn

Vidyanagar, AP (Open to Remote)

Professional Summary

Full-stack developer skilled in Next.js, React, Node.js, and TypeScript; shipped projects used by 1,300+ students, including a Telegram bot with ~200 ms responses via Redis caching and resilient scraping with 99% uptime.

Built and scaled web apps and community platforms; improved latency and reliability with caching, and fault-tolerant scraping; prioritize readable, modular components and CI linting/tests.

Seeking a software engineering internship to deliver features end-to-end, align with product goals, and quantify impact (e.g., uptime, response time, usage growth).

Technical Skills

Languages & Frontend: JavaScript, TypeScript, HTML, CSS, React, Next.js, Tailwind CSS

Backend & Database: Node.js, Express.js, MongoDB, Mongoose, LibSQL, REST APIs

Security & Authentication: JWT (Access/Refresh Tokens), bcrypt, Role-Based Access Control (RBAC)

DevOps & Cloud Infrastructure: Vercel, Oracle Cloud, Nginx, Let's Encrypt, Git, CI/CD workflows

Development Tools: Git version control (branching, merge strategies), Postman API testing, npm/yarn

Specialized Libraries: Cloudinary, Editor.js, Cheerio web scraping, Telegram Bot API, GSAP animations

Core Competencies: API development, performance optimization, web scraping, responsive design

Projects

Hacksprint — Library Management System — librarypro.tobioffice.dev   React 18, TypeScript,Express, MongoDB

- Engineered full-stack library management platform with JWT authentication and RBAC for secure multi-role access
- Implemented search/filter functionality and automated book borrowing workflow with due date tracking system
- Delivered complete production-ready hackathon project in under 2 hours using GitHub Copilot and rapid prototyping

SyntaxSoul — Blog Platform — blogs.tobioffice.dev   Next.js, Editor.js, Cloudinary, TypeScript

- Developed modular blog platform with rich text editor (Editor.js) and Cloudinary integration for image optimization
- Deployed on Vercel with custom domain configuration and Cloudflare DNS management for improved performance

NbkristQik — Academic Information Bot — t.me/nbkrist qik   TypeScript, Telegram Bot API, Cheerio

- Built Telegram bot serving 1,300+ students with instant access to academic schedules and university information
- Architected resilient web scraping system with error handling, achieving **99% uptime** on self-hosted infrastructure
- Added Redis-backed caching layer for schedule/data queries, cutting **response latency to ~200 ms** and lowering **external requests by ~80%.**

Self-Hosted Portfolio — portfolio.tobioffice.dev   React, Tailwind CSS, GSAP

- Deployed on Oracle Cloud with Nginx reverse proxy, SSL encryption (Let's Encrypt), and custom domain routing
- Optimized for low-resource environments (512MB RAM) while maintaining smooth GSAP animations and fast load times

Education

Bachelor of Technology in Computer Science Engineering   Expected May 2027

NBKRIST, Vidyanagar, Andhra Pradesh

Relevant Coursework

Web Technologies, Data Structures, Operating Systems, Database Management, Computer Networks