Nageshwaran Manikumar

(551) 358–1782 | Email | LinkedIn | GitHub | Hoboken, NJ

EXPERIENCE

Software Development Engineer Intern
Jun 2024 – Sep 2024

Triple Space Media
Chennai, India

- Engineered 15+ REST API endpoints using Python and Flask, processing 10,000+ daily requests with 99.9% uptime
- Optimized PostgreSQL queries through indexing and caching, reducing latency by 30% across production systems
- Developed automated testing framework with Pytest achieving 95% code coverage, reducing QA time by 40%
- Collaborated in agile team of 10 engineers, participating in code reviews and sprint planning to accelerate deployments

Full-Stack Software Engineer Intern
Jul 2023 – Dec 2023

Xypnotix
Chennai, India

- Built project management dashboard with React.js and Node.js, improving task tracking efficiency by 35% for 25+ teams
- Refactored 40+ React components implementing reusable patterns, reducing frontend errors by 25%
- Contributed to system improvements increasing uptime from 97% to 99.7% through performance optimization
- Integrated monitoring solutions enabling 40% faster incident detection and real-time system health tracking

PROJECTS

NYC Arrest Data Visualization & Analysis System | *Node.js, Express.js, MongoDB, Chart.js*
Dec 2025

- Built full-stack web application processing 212,000+ NYC arrest records with stratified sampling ETL pipeline
- Engineered RESTful APIs with Express.js and MongoDB handling pagination, advanced filtering, and authentication
- Developed interactive dashboards using Chart.js for demographic insights, time-series trends, and crime analytics
- Implemented security features including bcrypt password hashing, XSS protection, and session-based authentication

- Created CSV/PDF export functionality using pdf-lib with responsive Handlebars UI serving 50 records per page
- GitHub: github.com/gwh072308/CS546_FinalProject_Group28

Strava Lite - Workout Tracking & Social Network API | *Python, Flask, REST API*
2025

- Developed RESTful API with Flask supporting user management, workout logging, and social following features
- Implemented 8 API endpoints with proper HTTP status codes (200, 400, 403, 404) and UUID-based user identification
- Designed friend-following system allowing users to view workouts of followed friends with access control logic
- Built comprehensive API documentation with cURL examples and handled edge cases for duplicate user handling
- GitHub: github.com/Nageshwaran-Cyberbot/Strava_Lite

Interactive Developer Portfolio Website | *HTML5, CSS3, JavaScript (ES6+)*
2024

- Designed and built a high-performance personal portfolio from scratch using pure HTML, CSS, and vanilla JavaScript with no frameworks
- Implemented Matrix-style animated background, terminal-inspired UI, parallax effects, and glitch animations for a unique interactive experience
- Engineered smooth scroll-triggered animations with Intersection Observer API and requestAnimationFrame for performance optimization
- Optimized rendering using GPU-accelerated transforms and debounced scroll events with reduced-motion accessibility support
- Achieved Lighthouse scores of 95+ in Performance, Accessibility, SEO, and Best Practices across modern browsers
- Deployed responsive site supporting desktop, tablet, and mobile via GitHub Pages (Live Demo); source at GitHub Repo

Technical Skills

Languages: C++ (Proficient), Python, JavaScript, SQL, HTML/CSS
Frontend: React.js, jQuery, Handlebars, Chart.js, CSS
Backend: Node.js, Express.js, Flask, REST APIs
Databases: MongoDB, MySQL
Tools & Technologies: Git, Postman, Burp Suite, GitHub Actions, Pytest
Operating Systems: Linux, macOS, Windows
Concepts: Data Structures & Algorithms, Object-Oriented Programming, Agile Development

Education

Stevens Institute of Technology   Hoboken, NJ
Master of Science in Computer Science   *Jan 2025 – Dec 2026*

Mary Matha College of Arts and Science   Chennai, India
Bachelor of Computer Application in Software Development   *Jul 2020 – Apr 2023*