

# Nageshwaran Manikumar

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

## Experience

### Software Development Engineer Intern

Triple Space Media

Jun 2024 – Sep 2024

Chennai, India

- Developed 15+ REST API endpoints using Python and Flask for backend services processing daily user requests
- Enhanced PostgreSQL database queries through indexing strategies to improve data retrieval performance
- Established automated testing framework with Pytest covering 95% of codebase to ensure quality
- Collaborated in agile team of 10 engineers, participating in code reviews and sprint planning sessions

### Full-Stack Software Engineer Intern

Xypnotix

Jul 2023 – Dec 2023

Chennai, India

- Built project management dashboard with React.js and Node.js, streamlining task tracking for 25+ teams
- Refactored 40+ React components implementing reusable design patterns to enhance maintainability
- Contributed to system improvements that increased application uptime and operational reliability
- Integrated monitoring solutions enabling faster incident detection and real-time system health tracking

## Projects

### NYC Arrest Data Visualization & Analysis System | Node.js, Express.js, MongoDB

Dec 2025

- Built full-stack web application processing 212,000+ NYC arrest records with data pipeline
- Engineered RESTful APIs with Express.js and MongoDB handling pagination, filtering, and authentication
- Executed security features including bcrypt password hashing, XSS protection, and session management
- Generated interactive dashboards using Chart.js and CSV/PDF export functionality with responsive UI

GitHub

### Strava Lite - Workout Tracking API | Python, Flask, REST API

2025

- Architected RESTful API with Flask supporting user authentication, workout logging, and social features
- Implemented 8 API endpoints with proper HTTP status codes (200, 400, 403, 404) and UUID-based identification
- Constructed friend-following system with access control logic for secure workout data sharing
- Produced comprehensive API documentation with cURL examples and robust edge case handling

GitHub

### Interactive Developer Portfolio Website | HTML5, CSS3, JavaScript

2024

- Crafted personal portfolio from scratch using HTML, CSS, and vanilla JavaScript with no frameworks
- Applied Matrix-style animated background and terminal-inspired UI with parallax effects
- Improved rendering performance using GPU-accelerated transforms and Intersection Observer API
- Deployed responsive site supporting desktop, tablet, and mobile via GitHub Pages

GitHub | Live Demo

## Technical Skills

**Languages:** Python, JavaScript, C++, SQL

**Frontend:** React.js, HTML/CSS, Handlebars, Chart.js

**Backend:** Flask, Node.js, Express.js, REST APIs

**Databases:** MongoDB, MySQL

**Tools & Technologies:** Git, GitHub, Postman, Pytest, AWS (familiar), Terraform (learning)

**Concepts:** Object-Oriented Programming, Data Structures & Algorithms, Agile Development, Software Testing

## 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