VIGNESH GOPIKRISHNAN

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LinkedIn
GitHub

Professional Summary

- Innovative and collaborative Master's student with a growth mindset and a passion for building next-generation software. Proficient in full-stack development with Node.js and React, with hands-on experience in designing, developing, and testing scalable applications.

Education

- **RV INSTITUTE OF TECHNOLOGY AND MANAGEMENT, Bangalore**   2024-2026
  MCA, Karnataka   *CGPA/Percentage: 8.6*

- **ST JOSEPH'S UNIVERSITY, Bangalore**   2021-2024
  BCA, Karnataka   *CGPA/Percentage: 7.8*

Experience

- **Web developer Intern**   October 2024 – November 2024
  Mantarlee social innovations federation

  - Engineered and accelerated backend services using Node.js, Express.js, and MySQL, which led to a 15% improvement in server response time for the company's prototype application.
  - Partnered with a 3-member development team to provide robust backend support, ensuring seamless API integration with frontend components and contributing to a cohesive and functional user experience.
  - Architected and optimized the MySQL database schema, resulting in a 20% increase in data retrieval efficiency and improving the application's overall performance and scalability.
  - Developed and refined RESTful API endpoints, which enhanced system efficiency and bolstered overall backend functionality.

Technical Skills

Languages: C/C++, Python, JavaScript
Backend: Node.js, REST APIs
Frontend: React, HTML5, CSS, tailwind CSS
Cloud/Databases: AWS, SQL, MongoDB, PostgreSQL, Git,VS code
Soft Skills: Excellent communication ,Problem-Solving, Good listener

Personal Projects

- **Blogpost(GitHub)**
  December 2025 – January 2026

  - Developed a full-stack blog platform using React, Node.js, Express, and MongoDB, implementing JWT authentication with access/refresh token rotation and role-based authorization
  - Built RESTful APIs for CRUD operations with features including search, pagination, tag filtering, and user-specific content management with ownership-based access control
  - Designed a responsive dark-themed UI with React Router for protected routing, Axios interceptors for automatic token refresh, and Markdown rendering for blog content .

- **Trace-AI (GitHub)**
  December 2025– January 2026

  - An AI-powered code execution tracing platform that analyzes source code and generates step-by-step explanations of program flow, helping developers understand and debug complex logic.
  - Architected the project using Turborepo to manage a scalable monorepo structure, enabling efficient code sharing, modular development, and faster build workflows across multiple packages.

* Leveraged Bun runtime and tooling to optimize dependency management, development speed, and execution performance for the application.
* Implemented a code analysis pipeline that tracks control flow, variable states, and function execution to produce human-readable insights for improved code comprehension.

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CHAT (GitHub)

September 2025 – October 2025

* Developed a real-time full-stack chat application using React, Node.js, Express, and MongoDB, enabling seamless user communication with Socket.io.
* Built and integrated secure authentication and authorization using JWT, ensuring protected user access and session management.
* Implemented Zustand for efficient global state management, optimized API performance, and enhanced frontend responsiveness.
* Deployed the application with production-grade configurations, including environment variables, build optimization, and scalable hosting setup.

Certificates

○ Problem solving(basics) certificateby Hackerrank

○ Dynamics and interactive website using reactby Sju

○ full stack web development bootcampby udemy - built over 20+ project

○ AWS certified cloud practitioner course