

Tarun Vinodh Kumar

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EDUCATION

Lakehead University - Msc. Computer Science - GPA : 3.7/4.0

Thunder Bay, Ontario, Canada

Web Development, NLP, Mobile Programming, Computer Networks

2023- 2025

Panimalar Engineering College - B.E. Computer Science - CGPA : 9.28

Chennai, Tamil Nadu, India

Full-Stack Web Development, Java, Python, DSA, Software Engineering

2019 - 2023

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Python, Java, C++ , SQL, Kotlin

Web Technologies: React.js, Next.js, Redux, Tailwind CSS, HTML5, CSS3, Framer Motion, Node.js, Express.js, Server Actions.

Databases Cloud: MongoDB, Firebase, Appwrite, PostgreSQL, MySQL, AWS (S3, EC2, RDS, Athena, Glue, DynamoDB).

Developer Tools: Git, GitHub, VS Code, IntelliJ, Eclipse, Jenkins, JIRA, Docker, Kubernetes.

Data Visualization: Tableau, Power BI, Matplotlib, Seaborn, Plotly, Looker Studio

WORK EXPERIENCE

IT Developer - Vosyn

July 2025 - Present

- Contributed to the development of internal tools and client-facing platforms using **MERN stack** (MongoDB, Express.js, React.js, Node.js), enabling efficient task workflows and real-time data handling.
- Built and integrated **GenAI** features using **OpenAI APIs** and **LangChain**, including intelligent content generation and chatbot modules that enhanced user engagement and reduced manual workload by 40%
- Supported DevOps and system administration tasks such as managing user access, configuring environments, monitoring server health, and deploying apps using **Docker** and **GitHub Actions** in a Linux-based infrastructure.

Web Developer - The Intern Academy

June 2021 - November 2021

- Collaborated with stakeholders to gather design requirements and translate them into technical specifications that aligned with business and user experience goals.
- Designed and implemented a fully responsive UI for an online educational platform using **HTML**, **CSS**, **JavaScript**, and **Bootstrap**, resulting in a **20% increase in user engagement**.
- Developed interactive UI components and data visualizations with **React.js**, improving content clarity and enhancing cross-device accessibility and user retention.

Full-Stack Developer - The Sparks Foundation

January 2021 - June 2021

- Developed and deployed a secure payment gateway system using **React.js**, **Node.js**, and **MongoDB**, enhancing transaction reliability and system uptime.
- Analyzed transaction flow data to identify and eliminate performance bottlenecks, resulting in a **15% reduction in processing latency**
- Implemented end-to-end encryption and followed security best practices to ensure compliance with data protection standards and safeguard sensitive user information.

PROJECTS

Medical Assistant using Generative AI – Gemini

- Built a **Flask**-based web app that leverages **Google's Generative AI (Gemini)** to generate accurate and context-aware medical responses from user input.
- Integrated **LangChain** and **Retrieval-Augmented Generation (RAG)** to ground AI answers in relevant medical documents, enhancing reliability and factual correctness.
- Designed a user-friendly interface and structured prompt flow to ensure outputs are clear, informative, and aligned with clinical communication standards.

PDF Summarizer – Multi-LLM AI Web App

- Implemented a full-stack web application using **React.js**, **Node.js** and **Express.js** that enables users to upload PDFs and receive concise summaries.
- Incorporated **Hugging Face BART** and **Google Gemini** with custom prompt logic to generate multi-model outputs, enhancing contextual relevance and variety.
- Developed a responsive interface with **Tailwind CSS** to present AI-generated summaries side by side for real-time comparison and user interaction.

Food Monk – MERN Stack Food Delivery Platform

- Constructed a full-stack application using the **MERN stack** to enable browsing of restaurants, placing orders, and live order tracking with interactive user experience.
- Augmented user experience with **AI-driven food and restaurant recommendations** using past order behavior and real-time data.
- Employed **Google Maps API** for dynamic delivery tracking and deployed user authentication and admin controls via secure **JWT** token management.