VISAKH NAIR

FULLSTACK DEVELOPER

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CAREER SUMMARY

I'm a self-taught full-stack developer with a deep passion for building things that work fast, scalable, and meaningful. Over the past 5+ years, I've taken ideas from scratch to deployment, whether it's scaling an e-commerce platform to handle millions in sales, crafting AI tools that understand human emotion, or building scraping engines powered by modern LLMs. I thrive in fast-moving environments, constantly learning and applying the latest tools for me, coding isn't just a job it's a craft I've grown into through late nights, real-world problem-solving, and a genuine love for creating impactful software.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, Typescript, C#
Libraries/Frameworks: React, Angular, NextJS, Tensorflow, PyTorch, NodeJS, OpenCV
AI/ML: LLMs, Transformer Architecture, Training & Fine-Tuning, NLP, Gen AI
Tools / Platforms: Git, AWS, Docker, Hugging Face, CI/CD Pipelines, Linux
Databases: PostgreSQL, MongoDB, MySQL,

WORK EXPERIENCE

Full Stack AI Developer | Zedx Media – London, UK   **Sep 2024 - Present**
- Collaborated with computer vision experts and hardware engineers to develop a Python-based face recognition model for AI cameras in retail.
- Architectured and developed a highly scalable Node.js (NextJS) backend with a React frontend for an e-commerce platform, leveraging Redis for session management and Docker for containerization. This setup successfully handled a 200% surge in Black Friday traffic without downtime, processing over 100K in sales.
- Developed and integrated a data analytics dashboard using Tableau, Node.js, and a PostgreSQL database for a marketing analytics platform. This provided actionable insights, leading to a 25% increase in targeted campaign effectiveness and a 15% reduction in overall marketing spend.

React Developer (Freelance) | Gama Security Systems – Dubai, UAE   **Sep 2022 – Aug 2024**
- I led the design and development of full-stack web applications using React, Node.js, and MongoDB. This work resulted in a 30% faster response time and a 25% increase in user engagement.
- Successfully migrated a legacy JavaScript application to react, integrating it with a Node.js API, enhancing security with JWT authentication, and reducing page load times by 40%. This project showcased expertise in managing complex migrations and enhancing user experience across different technologies.
- I was part of a five-person team that built an e-commerce platform using Angular and Node.js. By following Agile methodologies, we were able to deliver the project on time 95% of the time. I also had the opportunity to mentor junior developers, which boosted our team's overall productivity by 15%.

Frontend Developer | Rupells Group – Kerala, India   **Jun 2020 – Jul 2021**
- Architected and deployed scalable Node.js applications, integrating microservices and RESTful APIs to handle high-traffic loads and improve system performance.
- Led automation initiatives using Node.js, streamlining workflows and reducing manual tasks by 75%, improving operational efficiency and delivering consistent results.
- Implemented real-time data processing pipelines using Node.js and Websockets, enhancing responsiveness and user experience in web applications.

- Collaborated with cross-functional teams to build high-performance, secure Node.js applications, driving an 85% increase in productivity through code quality improvements and optimised system architecture.

KEY STRENGTHS
- Self-taught full-stack developer with 5+ years of building and learning through real-world projects
- Fast learner with a growth mindset and strong drive to stay ahead in a fast-moving industry
- Passionate about fast-evolving tech; actively exploring tools like Next.js, TensorFlow, and Hugging Face
- Thrive in agile teams; committed to clean, scalable code and delivering user-focused solutions

PROJECTS AND OPEN-SOURCE

Renee GPT - LLM Model from scratch   PyTorch, Python, React, PostgreSQL
- Architected and built a custom Large Language Model (LLM) from the ground up, incorporating key advances like Rotary Positional Embedding (RoPE) and Grouped-Query Attention (GQA) to generate coherent text.
- Developed an interactive web platform (React, Node.js) for the LLM, giving users direct control over the AI's response style via Top-K/Top-P sampling and Temperature Scaling.
- Optimized the model's inference speed using a KV Cache, enabling real-time token generation on resource-constrained hardware and proving its efficiency through hands-on user testing.

WebMiner - Web Scraping Tool with AI   NextJs, React, OpenAI, PostgreSQL, Typescript
- Developed a full-stack web scraping application using Next.js, React, TypeScript, and PostgreSQL, featuring AI-powered scraping logic with scheduling capabilities and smart performance optimization, fully hosted on a self-managed server without third-party services

Feedback Analyzer Multimodal AI   OpenCV, Python, PyTorch, FastAPI, React
- Developed a full-stack multimodal AI system from scratch to analyze video, audio, and text for sentiment and emotion detection, using PyTorch, OpenCV, and BERT for feature extraction and deep learning.
- Architected a production-ready SaaS inference service using AWS SageMaker and S3, enabling secure, real-time predictions for high-volume user video uploads.
- Implemented a complete MLOps lifecycle with custom training pipelines and TensorBoard logging, ensuring continuous model updates with minimal downtime and clear performance tracking.

Parking Slot Finder   OpenCV, Python
- Employs advanced image processing techniques to accurately count and update the number of available parking slots in real-time, providing users with up-to-date information on parking availability
- By providing live updates on parking availability, contributes to reducing traffic congestion and emissions by helping drivers quickly locate parking spots, promoting a more efficient use of urban parking resources

EDUCATION AND CERTIFICATION

Master of Science in Computer Science | Chandigrah University - India   **2025**
Master of Arts in Business | University of Greenwich – London, UK   **2022**

CERTIFICATIONS
- Supervised Machine Learning: Regression and Classification | Stanford University
- Foundational C# with Microsoft | Microsoft
- DevOps Beginners to Advance with Projects - 2023 | Udemy