AKSHAR GOTHI

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PROFESSIONAL SUMMARY

Results-driven Software Engineer with 3+ years of experience in end-to-end full-stack development, AI/ML systems, and scalable cloud solutions. Proven ability to architect, troubleshoot, and optimize high-performance applications while integrating LLMs, Vector Databases, automation, and DevOps pipelines. Skilled in React, Node.js, TypeScript, Python, and cloud platforms (AWS/GCP) with expertise in debugging, performance tuning, and secure API design. Passionate about building developer tools and AI-driven platforms that enhance productivity, scalability, and user experience.

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, C++   **Database:** PostgreSQL, MySQL, MongoDB, Firebase

Frontend Technologies: React.js, Next.js, HTML/CSS, Tailwind   **Backend Technologies:** Node.js, Express.js, Django

ML/AI: PyTorch, TensorFlow, Transformers, LangChain, Hugging Face   **DevOps/Infra:** AWS, GCP, Docker, CI/CD, Kafka, Slack

WORK EXPERIENCES

Software Engineer - _Tatvasoft_, Ahmedabad, India   **July 2021 – August 2023**

- Engineered and scaled a cloud-native CMS for 2M+ products using React.js, Node.js, and AWS S3, delivering new product features that improved developer velocity by 30% in a cross-functional team environment.
- Architected and optimized secure, high-availability APIs and UIs, driving 20% higher user engagement while maintaining <1% defect rate in production.
- Integrated Elasticsearch and implemented SEO optimizations, boosting organic traffic by 10%.
- Orchestrated and automated workflows with Python and shell scripts, reducing processing time by 30%.
- Deployed and secured payment systems (Stripe, PayPal) for 10K+ users, ensuring compliance and data protection.

Backend Engineer Intern - _Reviewdale_   **July 2020 – August 2021**

- Developed and troubleshot a microservices architecture for large-scale e-commerce review analytics (Amazon, Flipkart).
- Built and secured REST APIs (Node.js, MySQL) for payment solutions, integrated with Google Ads & Razorpay.
- Optimized CI/CD pipelines with Docker & GCP, cutting deployment downtime by 15%.
- Collaborated in Agile sprints, delivering scalable and compliant backend services with fault tolerance and high availability.

PROJECTS

YoudescribeX (2025)

- Developed a React.js frontend + Python backend platform generating LLM-powered video captions for visually impaired users.
- Built a RAG-powered chatbot assistant that lets users query video content in natural language, retrieving captions and scene context for better accessibility.
- Fine-tuned lightweight LLMs with LoRA/QLoRA for low-latency inference.
- Optimized runtime by 50% using AWS Lambda, DynamoDB, and event-driven orchestration.
- Integrated YOLOv8 + LLM captions, enabling synchronized, accessible narrations.
- Tested and iterated with accessibility users, improving UX, caption accuracy, and chatbot relevance.

MockCode.AI – AI-Powered Job Interview Assistant (2024)

- Architected a full-stack platform that scrapes LinkedIn job postings and generates LLM-driven LeetCode-style problems.
- Implemented prompt engineering & chaining across 500+ coding challenges.
- Integrated Judge0 API for real-time execution with multi-language support (Python, JavaScript, Java).
- Built AI-powered code review & feedback pipelines, enabling developers to debug and improve solutions.
- Automated job applications with intelligent matching and one-click apply.

Shipify – Crowdsourced Package Delivery Platform (2024)

- Built and scaled a full-stack web app connecting travelers with delivery requests.
- Implemented authentication, ID verification & RBAC, ensuring trust and compliance.
- Designed trip-matching algorithms with filters (size, weight), real-time messaging, and tracking.
- Developed admin dashboards for user verification, doc approvals, and delivery monitoring.
- Deployed backend services with Prisma ORM, Docker & AWS, ensuring scalability and reliability.

EDUCATION

San Francisco State University, San Francisco, California, USA [GPA-3.63/4]   **August 2023 – December 2025**
Master of Science: Computer Science

- _Relevant Coursework:_ Software Engineering, Analysis of Algorithm, Deep Learning, NLP, Machine Learning

Chandubhai S Patel Institute of Technology, Gujarat, India [GPA-3.5/4]   **July 2017 – May 2021**
Bachelor of Technology: Information Technology

- _Relevant Coursework:_ Object-Oriented Programming, Data Structures, Operating Systems, Statistics, Data Science