

VIDYASAGAR AKHUMUKHI

[LinkedIn](#) | [Github](#) | sagar112113@gmail.com | 0831783836 | [Portfolio](#)

Professional Summary

- A results-driven Software Architect with a proven track record of designing, engineering, and deploying complex, AI-driven software solutions from concept to production. Combines hands-on leadership in founding and scaling software ventures with deep expertise in full-stack TypeScript architecture, utilizing Next.js, React, Node.js, and Google Gemini. Expert in transforming complex real-world business problems into scalable, high-performance applications that deliver significant value.

Professional Experience

Front End Developer	Sevenhills Hospital	June 2021 – April 2023
<ul style="list-style-type: none">Led the complete architectural redesign and development of the HMIS frontend using React.js, driving a 20% improvement in system performance and a 15% increase in user satisfaction scores across medical staff.Engineered a comprehensive testing framework using Jest and React Testing Library, implementing unit and integration tests that ensured high code quality and application stability for the mission-critical system.Solved critical data integrity and security challenges by architecting the seamless integration with backend RESTful APIs responsible for managing sensitive patient medical records.Authored comprehensive technical documentation and delivered end-user training that increased user adoption and directly resulted in a 15% reduction in support tickets.		

Education

Master of Science	University of Galway	Galway, Ireland	August 2024
<ul style="list-style-type: none">MSc Information Systems Management			
Bachelor of Engineering	University of Mumbai	Mumbai, India	May 2021
<ul style="list-style-type: none">Bachelor of Engineering in Computer Science			

Software Architecture & AI Initiatives

- [JobTrackAI](#) Aug 2025 - Present
Founded and led the end-to-end development of a sophisticated, AI-powered SaaS platform designed to solve a critical real-world problem: the inefficiency and manual burden of the modern job search. Owned the entire product lifecycle, from architectural design to deployment and scaling.
 - Engineered a proprietary AI pipeline leveraging Google's Gemini 2.5 to automate over 90% of manual data entry in job application management, reducing average application completion time from 30 minutes to under 3.
 - Architected and deployed a fully type-safe, full-stack application using Next.js 15 (App Router), TypeScript, and a PostgreSQL backend with Prisma, creating a robust, high-performance platform.
 - Designed and implemented a Server-Side Rendering (SSR) architecture to ensure optimal performance, SEO, and fast initial page loads for a superior user experience.
 - Developed and launched a suite of high-impact AI features, including an intelligent resume optimizer and a personalized cover letter generator with dynamic .docx export, which directly address major user pain points.
 - Owned the entire system design, including secure, role-based authentication with Clerk, real-time data management with TanStack Query, and comprehensive form validation using Zod.

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- Factors Influencing Near-Miss Incidents in ASRS Database through NLP Analysis **MSc ISM** *June 2024*
 - Developed and trained a predictive machine learning model that achieved 92% accuracy in identifying contributing factors to near-miss incidents from a dataset of over 10,000 reports.
 - Engineered a complete data processing pipeline in Python for cleaning, feature engineering, and model evaluation, solving a critical safety analysis problem.

Core Technical Competencies

- Full-Stack Architecture: TypeScript, Next.js, React, Epress.js, Node.js, REST APIs, PostgreSQL, Prisma, Supabase
- AI & Machine Learning: Google Gemini Integration, Natural Language Processing (NLP), Python
- Languages: TypeScript/JavaScript, Python, SQL
- Methodologies & Tools: Agile/Scrum, Git, CI/CD, JIRA, Visual Studio, Zod, TanStack Query

Certification

- Electronic Arts Software Engineering Job Simulation – Forage
- SQL and Relational Databases 101 Powered by IBM Developer Skills Network.
- Deloitte Technology Consulting Virtual Internship.
- C++ Fundamentals: Game Programming for Beginners – GameDev.tv
- McKinsey Forward Program