Alan Saji

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EDUCATION

VIT Bhopal University   Bhopal, Madhya Pradesh
Bachelor of Technology in Computer Science and Engineering (Grade 82%)   *June 2021 – July 2025*

St. Thomas Residential School   Mukkola, Thiruvananthapuram
Higher Secondary (Grade 87%)   *July 2019 – June 2021*

EXPERIENCE

Full Stack Developer   July 2024 – August 2024
Unified Mentor   *Remote, Gurgaon, Haryana*

- Created a responsive web application using Firebase to manage and stream media content, improving playback latency by 20%.
- Developed an expense management platform with Next.js and Drizzle ORM, reducing database query times by 35%.
- Implemented secure authentication and role-based access control with Firebase Authentication, ensuring reliable data protection.
- Integrated React Context API for scalable state management, enabling support for 1000+ products and seamless user interactions.

PROJECTS

MindMate – AI-Powered Support Platform | *Next.js, TypeScript, Prisma, Hugging Face, BetterAuth*   Live

- Built a full-stack web platform enabling 1:1 real-time conversation between Speakers and empathetic listeners through real-time chat functionality using Next.js 14 and Appwrite Realtime.
- Integrated Hugging Face Inference API to provide AI-powered session insights, including topic matching, conversation summaries, and sentiment analysis.
- Designed responsive interface using Tailwind CSS 4.1, Radix UI components, Framer Motion animations, and React Three Fiber for 3D visualizations, achieving 95% mobile compatibility across devices.

Face Recognition Attendance System | *C++, Java Swing, OpenCV*   Link

- Engineered real-time face recognition attendance system using C++17, OpenCV 4.x with contrib modules, and Java Swing GUI, achieving 95%+ accuracy and 30 FPS performance with ¡100ms recognition latency
- Implemented complete computer vision pipeline with LBPH face recognizer, Haar cascade classifiers, processing 15+ consecutive frames for attendance confirmation and preventing duplicate entries
- Built dual-interface system with Java Swing frontend (1020x620 resolution) and C++ backend using CMake build automation, supporting CSV/TXT exports, screenshot capture, and real-time statistics dashboard

Bixpence -Financial Management platform | *Next.js, Clerk, JavaScript, LLMs, Drizzle, Jest, Playwright*   Live

- Developed a comprehensive financial management platform using Next.js 14, React 18, and TypeScript, featuring real-time budget tracking, AI-powered insights, and automated email reminders with 95%+ build success rate.
- Crafted with cutting-edge technologies including Clerk authentication, Neon PostgreSQL database, Drizzle ORM, TanStack Query for state management, and integrated multiple AI providers (OpenAI GPT-4, Groq, xAI) for intelligent financial analysis and personalized recommendations.
- Orchestrated robust CI/CD pipeline with GitHub Actions, achieving 85%+ test coverage using Jest and Playwright E2E testing, Docker containerization for scalable deployment, and automated build optimization reducing deployment time by 60%.

TECHNICAL SKILLS

Languages: Java, Python, TypeScript, JavaScript (ES6+), C++, SQL (PostgreSQL), HTML/CSS
Frameworks:Next.js, React, Node.js, Prisma, Drizzle ORM, Tailwind CSS, React Three Fiber, Framer Motion
Developer Tools: Git, Docker, Firebase, Clerk, Appwrite, Neon PostgreSQL, Git, VS Code, Google Cloud Platform
Testing CI/CD: Jest, Playwright, GitHub Actions, Docker
AI/ML Tools Hugging Face, OpenCV, LLM APIs