

# ALAN NIXON

MERN Stack Developer

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## Profile Summary

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With a comprehensive background in the MERN stack, successfully completed two major projects and numerous sub-projects and cloned websites. Excel at solving complex problems efficiently and effectively, with high debugging skills, ensuring optimal performance and user experience. Proficient in front-end development with a strong emphasis on creating responsive and user-friendly websites. Skilled in utilizing modern development tools and frameworks to deliver high-quality web applications.

## Technical Skills

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- **Programming Languages:** JavaScript, TypeScript, HTML, CSS
- **Back End Development:** Node.js, Express.js, NestJS, Microservices, Django
- **Web API, Communication Protocols:** REST, gRPC, RabbitMQ, Socket.IO, WebSocket, WebRTC, GraphQL
- **Front End Development:** React, Next.js, Redux, Tailwind, Bootstrap, MUI, Vanta.js
- **Database:** MongoDB, PostgreSQL, Redis
- **Tools:** Git, GitHub, Docker, Postman, GitLab, Figma
- **Expertise in:** NPM packages, Data Structures & Algorithms
- **Familiar with:** AWS, Firebase, C, Java, Python (Basics)
- **Architecture:** Clean Architecture, MVC Architecture, Repository Architecture

## Projects

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### AV Stream - Streaming Web Application

[Live Link](#) | [GitHub](#)

AV-Stream is a user-friendly platform for streamers. The platform allows users to upload videos, post short content, and watch videos from other creators. Users have wallet includes payment integrations with **Razorpay** and **PayPal**. Each user has a unique QR code for easy profile sharing. Users can chat each other if they are following

- Built using a **microservices architecture** with four key services: chat, user, stream, and comment services. The comment service is developed in **Python Django**.
- Implemented **Express.js** on top of **Node.js** and followed **Clean Architecture** with **Microservices**.
- Used **RabbitMQ** and **gRPC** for efficient interservice communication.
- Enabled real-time interaction through chat using **Socket.IO** and video calls using **Zegocloud**.
- Used own **npm packages**: userauthenticationforavstreams, util-functions-nodejs, user-random-name-generator.
- Deployed on **AWS EC2** and frontend on **Vercel**.
- Technologies used: **Node.js, Express, TypeScript, MongoDB, React.js, Tailwind, Redux, Microservices, WebRTC, Docker, AWS, Vercel, Socket.IO, Zegocloud**.

### AV Shops E-Commerce

[Live Link](#) | [GitHub](#)

An **E-Commerce** website for selling processors, allowing customers to browse and purchase products online. Features include a user-friendly interface, secure payment system, account creation, order tracking, reviews, and wishlists.

- Engineered a user-friendly interface with features like an intuitive shopping cart and easy checkout.
- Implemented **Razorpay** for secure payment processing.
- Integrated a robust **admin panel** with order management tools.
- Deployed using **AWS EC2** with **Nginx**, **Certbot**, and **PM2**.
- Technologies used: **Node.js**, **Express**, **MongoDB**, **Bootstrap**, **AWS EC2**, **Nginx**, **PM2**, **Certbot**, **Razorpay**.

## Mini Projects

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### Utility-hub - URL Shortener, Password Generator, Online Note Saver

GitHub

Developed a tool that includes a URL shortener, password generator, and online note saver. Users can customize passwords by specifying parameters like length and character types.

- Technologies Used: **Vite + React, Firebase**

### Blog platform

GitHub

This is a blog uploading and reading platform written in micro service , followed **gRPC** for inter service communication

- Technologies Used: **Microservice, Grpc, Node, React**

### OLX Clone

GitHub

A clone of OLX designed using **React**. Utilizes **Firebase Auth** for user authentication and **Firebase Storage** for storing product images.

- Technologies Used: **Firestore, React.js**

### Jarvis - Command Executer

GitHub

The AI-Powered Linux Assistant is an intelligent system designed to assist users by executing commands in a Linux terminal through voice or text-based instructions. Built using Node.js and leveraging the child process module

- Technologies Used: **Node js, Child Process,Wikipedia API,Youtube API**

## Open Source

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**Npm Packages** - 5 Open source contributions to npm.js, helpful for projects.

- **util-functions-nodejs**: Package designed to simplify time-related calculations, validations, OTP generation.
- **userauthentication**: Package designed for the authentication purpose using **JWT** and **Passport**
- **user-random-name-generator**: Package used to generate unique and meaningful name for user
- **airport-nodejs**: Package desingned to retrieve information of aiports in world wide and details of the airport
- **expiring-token-generator**: Package used to create a unique token using **JWT** just like uuid module

## Education

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### MERN Stack Development

**2023 - Present**

Brototype, Kochi

### Plus Two – Computer Science

**2022 - 2023**

ST Thomas HSS Thope, Thrissur

Percentage: 86%