Aryan Singh Bisht

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SUMMARY

Results-driven backend developer with proven expertise in Node.js, Express, and AWS, as well as decentralized application development on Solana blockchain using React and Solana Web3.js. Successfully built scalable solutions like a GenAI system at Samsung PRISM, achieving a 48.92% boost in DSL query generation accuracy, and developed user-friendly Solana Token Launchpad and Token Generator apps enabling seamless creation and minting of SPL tokens with secure wallet integration. Experienced in full-stack development with SQL databases and Java-based enterprise solutions. Passionate about delivering high-performance tools that reduce operational costs and accelerate innovation for forward-thinking organizations.

PROFESSIONAL SKILLS AND EXPERTISE

Languages & Technologies: Java, SQL, JavaScript, TypeScript, Rust (basic for Solana), Solana Web3.js

Frameworks & Libraries: Next.js, Node.js, React.js, Solana Wallet Adapter, PostgreSQL

Database and Misc: MySQL, MongoDB, Git, REST API, POSTGRES

Architectures and Paradigms: Monolithic, Microservice, Event Driven Architecture, Object Oriented

Programming, Decentralized Applications (DApps)

Miscellaneous: AI, ML, Blockchain Development

Certificates:

- AWS Certified Solutions Architect Associate Certificate Link
- AWS Cloud Practitioner Certificate Link
- Microsoft: Azure AI Fundamentals Certificate Link
- Microsoft Certified: Azure AI Engineer Associate Certificate Link
- DSA using Java Certificate Link

EDUCATION

Vellore Institute of Technology (Vellore)
Bachelor of Technology in Information Technology

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Sept. 2022 – Dec 2026

City Montessori School (X)

June. 2018 – April 2019

City Montessori School (XII)

Indian School Certificate

91.7%

92.7%

Indian School Certificate

June. 2020 – April 2021

WORK EXPERIENCE

Samsung PRISM Research Intern

Project Repository — Certificate Link

VIT Vellore, Sep 2024 - May 2025

- Increased PromQL query generation validity rate to 83.33% by implementing a modular RAG framework with hybrid dense-sparse retrieval and syntax correction, resulting in a 48.92% improvement over baseline ChatGPT accuracy.
- Decreased query generation **ambiguity and failure rates for complex user inputs** by introducing agentic RAG flows leveraging dynamic tool orchestration in LangChain, improving the system's ability to handle ambiguous or multi-step natural language descriptions.

• Enhanced system **scalability and relevance** by curating and integrating datasets (Prometheus documentation, Kaggle NL-PromQL pairs, and custom metrics), ensuring coverage from simple to complex intents, and systematically addressing data context challenges during pre-processing.

PROJECTS

Zentry Clone | React.js, Tailwind CSS, Vite, GSAP, Framer Motion | Live Demo

Project Link

- Built a modern and interactive portfolio website called **Zentry Clone** using **React.js** and **Tailwind CSS**, inspired by an Awwwards-winning design.
- Implemented smooth page transitions and scroll-based animations using **GSAP** and **Framer Motion** to enhance user experience.
- Optimized performance and development workflow with **Vite**, and followed best practices to ensure clean, responsive, and scalable code.

Smart Agriculture | Node Js, Javascript, Python, AWS, MongoDB, Nodejs,

Project Link

- Developed a **Real Estate Developer** lead generation platform with a user-first approach, utilizing **AWS** services for seamless functionality.
- Implemented AWS Lambda with API Gateway to process user messages and store images securely in Amazon S3, integrating AWS Rekognition for intelligent image analysis.
- Built backend services with **Node.js** and enhanced client-side interactions using **JavaScript** for a smooth and responsive user experience.

E-commerce Website | React, Node.js, Express, MongoDB, EJS, SQL, Stripe, Razorpay

Project Link

- Developed a mobile-first property booking platform with **dynamic search functionality** based on location, price, and amenities, using **MongoDB** for efficient data management.
- Built the backend with **Node.js** and **Express**, integrating user authentication, property management, and transactional data handling with a **SQL database** for bookings and payments.
- Enhanced performance and user experience through caching, pagination, and real-time updates using EJS, while following clean code architecture and Google best practices for Node.js.
- Designed and deployed a full-stack e-commerce website using **React**, **Node.js**, and **MongoDB**, featuring secure payments via **Stripe** and **Razorpay**, and robust order management workflows.

Solana Token Generator | React, Solana Web3.js, SPL Token, Wallet Adapter | Live Demo

Project Link

- Built a decentralized application to create and mint custom SPL tokens on the Solana blockchain with a user-friendly interface.
- Integrated wallet connection using **Solana Wallet Adapter** supporting Phantom and Solflare wallets for secure transaction signing.
- Implemented token minting logic including mint account creation, associated token account setup, and token minting with real-time transaction status and error handling.
- Provided cost breakdown and wallet balance checks to ensure users have sufficient SOL to cover token creation and transaction fees on Devnet.
- Designed with React for a smooth UX and detailed feedback on transaction progress and results.

Solana Token Launchpad | React, Solana Web3.js, SPL Token, Wallet Adapter | Live Demo

Project Link

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