JAGAN BALASUBRAMANIAN

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EDUCATION

Bachelor of Technology in Information Technology   2021 - 2025 (4th Year)
Sona College of Technology, Salem
Overall GPA: 8.4/10

SKILLS

Programming Languages and Libraries: Java, JavaScript, Node.js, React.js
Databases: MongoDB, PostgreSQL, Sequelize
Tools & Frameworks: Docker, Kubernetes, WebSockets, Redis, Cytoscape.js, Apache Age, Git, GitHub
Other Skills: API Design & Integration, DevOps Basics, Data Structures & Algorithms, Prompt Engineering, Leadership, Teamwork

EXPERIENCE

Member Technical Intern   Dec 2024 - Present
Zentropy Technologies   Chennai, IN

- Led the development of a trading platform similar to **Kite by Zerodha**.
- Designed and integrated the **Spider** feature, a stock data visualization tool, increasing **user engagement by 90%**.
- Optimized real-time stock data updates using **WebSockets**, reducing data latency by 40%.
- Built an intuitive, scalable user interface using **React.js, Tailwind CSS, Framer Motion**, and integrated **PostgreSQL, Apache AGE, Cytoscape.js, and D3.js**.

PROJECTS

Book My Ticket:

- Developed a **movie ticketing system**, enabling theatre owners to manage screens, movies, and showtimes.
- Implemented **Redis caching** and **cron jobs**, reducing response time by 50%.
- Applied **concurrency control** using **optimistic locking** and **serializable isolation**, increasing transaction throughput by 30% during high-traffic periods.

Decentralized Web Wallet:

- Built a **secure decentralized web wallet** for multi-chain transactions on Solana and Ethereum.
- Integrated **AES encryption, PBKDF2 hashing** for private key security and **bcrypt authentication**.
- Optimized blockchain interactions with **Solana/Web3.js** and **Ethers.js**, achieving **35% faster transactions**.

ACHIEVEMENTS

- **Global Rank 400** out of 20,000 in **Leetcode Bi-Weekly Contest**.
- **1700+ rating** on Leetcode; solved over **700+ problems** across various coding platforms.
- **Smart India Hackathon Finalist** - **Led a team** to develop an innovative solution for a national-level real-world problem.
- **Mentored 50+ students** in competitive programming, improving their algorithmic thinking and coding skills.
- **SSOC23 Open Source Contributor** - **Enhanced web search efficiency** by implementing an optimized **Bloom Filter Algorithm.**