# Ram Bapu

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## Education

**SASTRA Deemed to be University** — May 2018
*Bachelor of Technology in Mechanical Engineering (CGPA: 8.5)* — *Tanjore, Tamil Nadu*
- **Relevant Coursework:** Data Structures and Algorithms (JS), Introduction to C and C++, Programming in Python, Data visualization via Tableau

## Experience

**Tata Consultancy Services Limited** — Jun 2018 – May 2020
*System Engineer* — *Bangalore, KN*
- Engineered scalable protection policy journeys across multiple syndication channels at Legal & General (UK's largest Insurance provider) using JavaScript (frontend) and Spring Boot REST APIs (backend), improving user experience and contributing to a  20% increase in successful policy submissions.
- Implemented a performance monitoring admin dashboard with interactive tables and charts, enabling back-office team to analyze syndicator conversion rates and customer acquisition trends, reducing manual reporting efforts.

**Arus Info Private Limited** — Oct 2022 – Jul 2023
*Product Developer* — *Bangalore, KN*
- Designed and implemented dynamic, no-code, self-service planning interfaces with dynamic grid components, time intelligence logic and rolling forecast capabilities, empowering business users to simulate revenue and accelerating decision-making cycles by over 40%.
- Developed complex planning and scenario simulation modules using React, Redux, and JavaScript, implementing efficient state management and optimized rendering strategies to support real-time bidirectional scenario modeling and multi-destination writeback.

**Lumel Technologies LLP** — Jul 2023 – Present
*Product Developer* — *Chennai, TN*
- Engineered a no-code data transformation interface in React, Redux, and TypeScript, enabling users to perform complex operations such as append, merge, pivot/unpivot, and group-by through an intuitive UI, reducing reliance on DAX/SQL scripting and cutting report development time by 30%.
- Built reusable, type-safe UI components with TypeScript and TailwindCSS, supporting dynamic schema changes, composite modeling and real-time writeback consolidation into unified planning tables, eliminating the need for separate ETL workflows.

## Projects

**Chatify** | *MongoDB, Express, React.js, Node.js, Socket.io, JWT*
- Implemented real-time messaging and live online presence using Socket.io, enabling low-latency bidirectional communication and improving message delivery responsiveness by 40% compared to polling-based approaches.
- Built text and image chat workflows with optimistic UI updates in React, reducing perceived message latency.

**Ideation** | *NextJS, Typescript, TailwindCSS, Clerk, Motion, Postgres*
- Developed an AI-powered notes application integrating Google Gemini API for real-time text autocompletion.
- Integrated intelligent title-based AI image generation workflows, dynamically generating contextual visuals from note metadata.

**Productify** | *Postgres, Express, React.js, Node.js, Tanstack Query, Drizzle*
- Built a full-stack Product Store application using the PERN stack (PostgreSQL, Express, React, Node.js) with Drizzle ORM, implementing secure RESTful APIs and optimized database queries for efficient product management.
- Developed a seamless, consistent UI theme styling using modern React patterns and TanStack Query for server-state management, enabling efficient data fetching.

## Technical Skills

**Tools**: Figma, Vite, Drizzle-Kit, Vercel, Axios, Clerk, CSS3, DaisyUI, Framer-Motion, Firebase, GitHub, JWT, Postman
**Technologies**: Javascript, Typescript, React.js, MongoDB, Mongoose, Node.js, Express, Postgres, MySQL, Drizzle, TailwindCSS, NextJS, Socket.io, Zustand, Redux, Tanstack Query