

ARUN S R

Full Stack Software Engineer | React, TypeScript, Node.js | SaaS Integrations, Billing, AI Workflows

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[LinkedIn](#) | [GitHub](#) | [GitHub Work](#) | [Portfolio](#)

PROFESSIONAL SUMMARY

Full-stack software engineer with 2+ years of experience delivering B2B SaaS products using React, TypeScript, Node.js, Express, and REST APIs. Experience includes billing and subscription workflows, third-party integrations, AI-powered natural-language ticket filtering, and cache debugging tools.

PROFESSIONAL EXPERIENCE

Software Engineer, Member of Technical Staff | [SparrowDesk \(SurveySparrow\)](#)

May 2025 - Present

Chennai, India

- Own the production billing and payments module end to end, partnering with the internal Stripe integration team on subscription workflows, payment-state handling, integration points, and release readiness for live customers.
- Design, develop, test, and deploy full-stack product features across React front-end interfaces, Node.js/Express services, REST APIs, and customer-facing SaaS workflows.
- Led the [SparrowDesk Gmail Add-on](#) from scoping through development, validation, and public release on the Google Workspace Marketplace.
- Implemented third-party integrations with [Stripe](#), [Jira](#), [Linear](#), and [HubSpot](#), covering authentication, API contracts, data mapping, and integration-specific product constraints.
- Built reusable UI primitives including advanced filters and nested dropdowns with the [Twigs](#) design system, improving consistency and delivery speed across product modules.
- Owned end-to-end development and optimization of AI-powered ticket filtering: replaced LLM API calls with Jev (TypeSafe AI), converted natural-language requests into structured filter chips, and implemented typed decision handling with deterministic logic to improve speed and accuracy.
- Developed customer-facing knowledge-gap workflows that help users find relevant support content and surface missing information.
- Implemented a Valkey Model Context Protocol (MCP) integration to streamline cache inspection and debugging.
- Improved onboarding flows by simplifying setup steps, clarifying first-use actions, and reducing friction across early adoption journeys.

Software Engineer Intern, Front End | [SparrowDesk \(SurveySparrow\)](#)

Jul 2024 - Apr 2025

Chennai, India

- Delivered production UI across SLA management, macros, billing, reusable filters, and nested dropdowns using React, JavaScript, and the Twigs design system.
- Collaborated with product, design, and engineering partners to translate requirements into reusable components and polished, tested SparrowDesk workflows.

TECHNICAL SKILLS

Front End: React.js, Next.js, TypeScript, JavaScript ES6+, HTML5, CSS3, TanStack Query, Twigs, Tailwind CSS, Chakra UI, Figma

Back End & APIs: Node.js, Express.js, REST APIs, JSON, Socket.io, Model Context Protocol (MCP)

Databases & Search: PostgreSQL, MongoDB, DynamoDB, OpenSearch, Valkey

Languages: JavaScript, TypeScript, Java, Python, C++, C

Tools and Practices: Git, CI/CD, Agile delivery, code review, unit and integration testing

Domain: Billing workflows, subscription management, Stripe integration, SaaS marketplace integrations, CRM integrations

PROJECTS

SoundSync - Real-Time Streaming Web Application | React.js, Express.js, Socket.io, Tailwind CSS | Oct 2023 - Nov 2023 | [Demo](#)

- Built and deployed a real-time music streaming application supporting custom listening rooms, private sessions, and live chat over WebSockets.
- Improved backend efficiency using debounced API calls and cached search results to reduce redundant requests.

Sorting Visualizer | React, Chakra UI, Gemini API | Mar 2024 - Apr 2024 | [Demo](#)

- Developed an interactive algorithm visualizer for Bubble Sort, Insertion Sort, and Selection Sort with configurable input arrays.
- Integrated Gemini API to generate contextual explanations of sorting behavior.

EDUCATION

Bachelor of Engineering, Computer Science and Engineering | Bannari Amman Institute of Technology | Nov 2021 - Apr 2025 |

CGPA: 8.2 / 10

ACHIEVEMENTS AND CERTIFICATIONS

- First place, BIT Software Hackathon 2023 in Web Development as UI Developer - cash prize of INR 15,000.
- JavaScript Certification, Infosys Springboard.