

Tarun Suresh V

Software Engineer

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SUMMARY

- Software Engineer with **3+ years of experience** building scalable and high-performance web applications.
- Proven expertise in **React, Next.js, and Tailwind CSS** with a strong focus on frontend development and seamless backend integration.
- Hands-on experience in **aviation software solutions** (real-time dashboards, compliance reporting) and **e-commerce platforms**.
- Skilled in **state management, API integration, data visualisation, and performance optimisation** for complex workflows.
- Adept at collaborating with **cross-functional teams** (designers, backend engineers, domain experts) to translate requirements into user-friendly, production-ready solutions.
- Strong problem-solving mindset, with a track record of delivering **intuitive UIs and robust backend systems** under tight deadlines.

TECHNICAL EXPERTISE

- Frontend Development:** React.js, JavaScript, TypeScript, HTML, CSS, Tailwind CSS
- Backend Development:** Node.js, Next.js, Express.js, Supabase
- Database:** SQL (Postgresql), Prisma
- Version Control:** Git, GitHub Copilot
- IDE:** VS Code, Antigravity
- Story Card:** Jira (Atlassian)
- API Application:** Postman
- Methodology:** Agile
- Architecture:** SPA (React)

PROFESSIONAL EXPERIENCE

Blunav Technologies, India

Software Engineer | Oct 2024 - Present

Aviation Operations Dashboard (AERIOS)

- Contributed to the frontend development of a real-time airport operations dashboard supporting resource allocation workflows for airside operations.
- Built interactive React components using Next.js and Tailwind CSS to manage and visualise gate, bay, and carousel allocations, along with flight chocks on/off times and live airside status.
- Implemented resource allocation timelines and visual indicators to highlight allocation conflicts, availability states, and operational constraints in real time.
- Developed dynamic data visualisations (tables, charts, and live status panels) to present complex operational metrics with clarity for operational decision-making.
- Integrated frontend modules with RESTful APIs to ensure near real-time synchronisation of allocation data with backend systems.
- Collaborated closely with aviation domain experts and UX designers to design intuitive, operator-focused interfaces for mission-critical desktop consoles.
- Participated in Agile development practices, contributing to backlog refinement, sprint planning, and

iterative delivery of resource management features.

Technologies Used:

- **Frontend:** Next.js, Tailwind CSS
- **API Integration:** RESTful APIs
- **Used Tools:** Git, Jira/Agile tools, Figma, VS Code

Flight Information Display System (Blunav FIDS)

- Built and enhanced a polling-based data synchronization mechanism to fetch and refresh flight, gate, and resource data at controlled intervals for operational dashboards and display systems.
- Designed non-blocking warning indicators for overlapping allocations, maintenance downtimes, and invalid assignments to support real-world operational flexibility.
- Optimised frontend performance to handle frequent refresh cycles without degrading UX on long-running airport displays.
- Integrated manual override workflows to reconcile automated flight feeds with operational adjustments by airport staff.
- Collaborated closely with operations stakeholders to translate domain-specific rules into reliable application logic.

Technologies Used:

- **Frontend:** Next.js, Tailwind CSS, Shadcn
- **Backend:** Next.js Api
- **Data Flow:** API polling, controlled refresh intervals, state reconciliation
- **Non-Functional:** Reliability, performance tuning, operational resilience

GREENMEN CONSULTING, India

Trainee – Software Engineer | June 2023 - Sep - 2024

Purecode

- **Role & Contribution:** Acted as a specialised data annotator for the PureCode.ai product, focusing on high-precision labelling of web components to train AI models for design-to-code conversion.
- **Technical Execution:** Utilised internal proprietary tools to identify and categorise complex frontend elements, including buttons, navigation links, accordions, and dynamic tags.
- **Quality Assurance:** Ensured structural accuracy and semantic tagging of website elements to improve the model's ability to generate clean, functional code from visual designs.
- **Domain Knowledge:** Developed a deep understanding of DOM (Document Object Model) structures and UI component hierarchies through consistent analysis of diverse web layouts.

EDUCATIONAL QUALIFICATION & OTHERS

Vel Tech High Tech Engineering College, Chennai

B.E. in Mechanical Engineering | CGPA: 8.1 | Aug 2019 - Apr 2022

Jaya Polytechnic College, Chennai

Diploma in Mechanical Engineering (DME) | CGPA: 7.8 | Aug 2016 - Apr 2019