# HARIKRISHNAN N

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## SUMMARY

Front-End Software Engineer with **6+ years of experience** specializing in **Angular**, **TypeScript**, and **modern reactive programming**. Expert in building **customer-facing applications** with **Angular 17+**, **Signals**, **RxJS**, and **state management patterns**. Proven track record delivering **production features** for **enterprise platforms** and **high-traffic booking systems** in **aviation domain**. Skilled in **data visualization** (**D3.js**, **vis.js**, **Grafana**), **performance optimization**, and leading **technical initiatives** in **Agile environments**.

## WORK EXPERIENCE

**IBS Software — Lead Full Stack Engineer**
*September 2025 – Present | Kochi, India*

- Developing and maintaining the booking portal for Etihad Airways, a production application serving thousands of end-user customers daily.
- Building new features with Angular 17+, leveraging modern capabilities including Signals for reactive state management and advanced RxJS patterns for complex asynchronous workflows.
- Working extensively in the aviation domain, implementing booking flows, seat selection, ancillary services, and fare calculation logic.
- Collaborating with cross-functional teams to deliver features on tight deadlines while maintaining code quality and production stability.

**UST — Senior Software Engineer**
*June 2022 – September 2025 | Kochi, India*

- Led front-end development of an AIOps Monitoring Platform, implementing scalable architecture with Angular, RxJS, NgRx (Facade pattern), and PrimeNG.
- Designed and integrated topology network visualizations (Vis.js) and performance monitoring dashboards (D3.js, Grafana).
- Developed dynamic dashboards, reusable UI components, and custom Grafana wrappers via Node.js APIs.
- Played a key role in architecture decisions, code reviews, and mentorship of junior developers, ensuring code quality and knowledge sharing.
- Collaborated with backend and DevOps teams for API integrations, achieving high-performance and maintainable releases.

**Tata Consultancy Services — Systems Engineer**
*January 2019 – June 2022 | Kochi, India*

- Built and enhanced multiple Angular applications with focus on accessibility, responsive design, and reusable UI components.
- Delivered a Medical Analytics Dashboard with D3.js for dynamic KPI charts, historical trends, and data-driven visualizations.

## KEY PROJECTS

**Etihad Airways Booking Portal (IBS, 2025–Present)**
*Angular 17+, TypeScript, Signals, RxJS, SCSS, PrimeNG, RESTful APIs*

- Developing customer-facing booking application handling flight search, seat selection, payment processing, and booking management.
- Implemented reactive features using Angular Signals for improved performance and simplified state management.
- Built complex payment integration flows ensuring PCI compliance and seamless user experience.
- Applied domain-driven design principles specific to aviation industry requirements (fare rules, booking classes, ancillary services).

**AIOps Monitoring Platform (UST, 2022–2025)**
*Angular 12/15, SCSS, TypeScript, D3.js, vis.js, Grafana, PrimeNG, Node.js, Express, MongoDB, ElasticSearch, RxJS, NgRx*

- Architected and developed an AIOps platform for real-time incident analysis and infrastructure monitoring.
- Created time-series graphs (D3.js) and topology maps (vis.js) for system health and performance.
- Implemented NgRx with Facade pattern for clean, scalable state management.

**Medical Analytics Dashboard (TCS, 2020–2022)**
*Angular 12, TypeScript, SCSS, D3.js, Bootstrap, RxJS, NgRx*

- Designed a data-driven dashboard for medical representatives with interactive performance visualizations.
- Built reusable Angular Material components, ensuring modular design and responsive UI.

**Accessibility UI Overhaul (TCS, 2019–2020)**
*Angular 8, JavaScript, SCSS, D3.js, Bootstrap*

- Enhanced accessibility of a legacy enterprise app with WCAG standards, ARIA roles, and responsive layouts.

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## SKILLS

- **Languages & Frameworks:** JavaScript, TypeScript, Python, Angular (8-17+), HTML5, CSS/SCSS
- **Modern Angular:** Signals, Standalone Components, Control Flow Syntax, Reactive Forms
- **State Management:** RxJS, NgRx (Facade Architecture), Angular Signals
- **UI/UX & Visualization:** PrimeNG, Angular Material, Bootstrap, TailwindCSS, D3.js, vis.js
- **Domain Knowledge:** Aviation/Airlines Industry, Booking Systems, Payment Integration
- **Tools & Version Control:** Git, GitHub, GitLab, VS Code, Chrome Dev Tools, Redux Dev Tools
- **Practices:** Agile, CI/CD, Code Reviews, Performance Optimization, Production Support

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## EDUCATION

**TocH Institute of Science and Technology — Kochi, India**
B.Tech in Mechanical Engineering | 2014 – 2018 | CGPA: 7.61