DHEERAJ DUGGEMPUDI

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Professional Summary

Frontend-focused Software Engineer with **5+ years of experience** building and scaling enterprise web applications using **Angular, TypeScript, and Node.js**. Strong background in **modular architectures, CI/CD optimization, and frontend performance tuning**. Proven track record leading UI modernization efforts and enabling faster delivery pipelines for mission-critical systems in the **airline and finance domains**.

At **Amadeus**, contributed to an airline commerce platform used by **major global carriers such as Lufthansa, Air India, and Malaysian Airlines**, serving **hundreds of millions of users annually** across international markets.

Core Competencies

Frontend: Angular (v13+), RxJS, NgRx, Angular Material, SCSS, HTML5, TypeScript, JavaScript
Backend & APIs: Node.js, Express.js, GraphQL, REST, TypeORM, MongoDB, PostgreSQL, Neo4j
DevOps & CI/CD: Docker, GitHub Actions, Azure DevOps, YAML pipelines, Nginx, Microservices
Testing: Jasmine, Jest, Karma, Playwright, E2E Automation, Unit & Integration Testing
Architecture: Monorepo Management, Micro Frontends, Caching, Lazy Loading, AEM Integrations
Tools & Practices: Git, Jira, Confluence, Figma, Postman, Agile/Scrum, Code Reviews

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Professional Experience

Senior Software Engineer | Accolite Digital (Client: Morgan Stanley)

Oct 2024 – Sept 2025

- Architected **scalable Angular UI frameworks** for financial dashboards handling real-time data visualization and event-driven updates.

- Integrated **Neo4j** and **PostgreSQL** databases with an **Apollo Server** backend using **Node.js** and **Express.js**, enabling the frontend to perform **efficient GraphQL queries** across graph and relational data.

- Designed and optimized **Cypher** and **SQL queries** for complex data retrieval, ensuring high-performance, scalable APIs for enterprise applications.

- Established robust GraphQL schemas and resolvers, supporting **real-time data access**, seamless frontend integration, and maintainable backend architecture.

- Improved CI/CD reliability by restructuring **YAML pipelines** to **build apps in parallel**, cutting overall build time by **~40%**.

- Developed modular Angular Material components aligned with design system standards for reusability across micro-frontends.

- Implemented **GraphQL resolvers** using **Apollo Server**, optimizing API calls and improving response latency by 20%.

- Led performance tuning initiatives — introduced **lazy loading, on-push change detection, and caching strategies** to improve UX responsiveness.

- Mentored junior engineers in Angular best practices, debugging, and CI/CD workflows.

Software Engineer | Amadeus Labs

Jul 2020 – Aug 2024

- Developed and maintained the **Amadeus Digital Experience Suite**, a high-traffic airline booking platform powering **hundreds of millions of transactions per year** for leading carriers including **Lufthansa, Air India, and Malaysian Airlines**.

- Partnered with **international teams (France, Germany, UK)** to deliver consistent, localized, and accessible experiences across multiple airline brands.

- Integrated **AEM CMS** to enable dynamic content management by business teams without requiring code deployments.

- Implemented **NgRx-based state management** for large-scale workflows, improving reliability and data consistency in flight search and booking flows.

- Migrated a **monorepo build system** to parallelize CI/CD pipelines, cutting build times and reducing deployment risk.

- Drove performance audits and **improved Lighthouse scores**, optimizing first paint and overall UX metrics for high-volume traffic.

- • Coordinated with penetration testing teams to identify and remediate security vulnerabilities, ensuring the application met **PCI DSS compliance** standards across all deployments.

- Containerized applications using **Docker** and automated pipelines with **Azure DevOps**, ensuring reproducible environments and fast release cycles.

- Ensured **WCAG-compliant accessibility** and responsive design across all supported airlines and devices.

- Authored internal documentation, coding standards, and best practices for international development teams.

Education

Bachelor of Technology in Computer Science – SRM University – 89% (2016–2020)
Sri Chaitanya Junior College – 94.5% (2014–2016)