

BRIAN D'SOUZA

AI Software Engineer | Full-Stack Java Developer | Spring Boot & Microservices | GenAI, RAG & Azure

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PROFESSIONAL SUMMARY

Full-Stack Java Engineer with 8+ years architecting, modernizing, and deploying high-scale microservices and cloud-native platforms across Travel/Airline, FinTech, Payments, Healthcare, Telecom, and EdTech. Deep hands-on expertise in Java 8/11/17/21, Spring Boot, Spring Microservices, Hibernate/JPA, Domain-Driven Design, RESTful API development, Kafka-based messaging, and Git-based CI/CD workflows, with production deployment experience on Azure (Azure App Service, Azure Container Apps, Kubernetes, Azure DevOps CI/CD). M.Tech in Artificial Intelligence & Machine Learning with hands-on experience building a Retrieval-Augmented Generation (RAG) application using LLM APIs, vector search, and embeddings — bringing practical grounding in integrating GenAI and agentic AI capabilities into enterprise Java systems. Proven track record delivering revenue-critical, high-traffic platforms at Qatar Airways, contributing to \$1M+ in monthly ancillary sales through real-time personalization and loyalty systems. Comfortable operating in Agile/Scrum environments, collaborating with architects and cross-functional global teams, mentoring engineers, and driving measurable delivery quality and productivity gains.

CORE TECHNICAL COMPETENCIES

Languages	Java 8/11/17/21, Python, JavaScript, TypeScript, SQL
Frameworks	Spring Boot, Spring MVC/IOC/AOP, Spring Microservices, Hibernate/JPA, Django, FastAPI (working knowledge), Angular, React/Next.js (working knowledge), Thymeleaf
GenAI & AI Integration	LLM APIs (Azure OpenAI/OpenAI), RAG Pipelines, Vector Search & Embeddings, Model Context Protocol (MCP) – familiar
Cloud & DevOps	Kubernetes, Docker, Podman, Azure App Service, Azure Container Apps, Azure DevOps CI/CD, AWS, GCP, GitLab CI/CD, SonarQube
Architecture	Microservices, Domain-Driven Design (DDD), REST APIs, BFF, MVC, Singleton, Factory, Adapter, DAO/DTO
Data & Messaging	MySQL, PostgreSQL (working knowledge), Snowflake, Kafka, MQ, JDBC
Monitoring	Elasticsearch (ELK), Graylog, Sentry, AppInsights, Log Analytics
Web & UI	HTML5, CSS3, Bootstrap, AJAX, jQuery, Adobe Experience Manager (AEM)
Practices & Tools	Agile/Scrum, TDD, Waterfall, Git, Maven, Gradle, Swagger, Insomnia

PROFESSIONAL EXPERIENCE

IT Consultant

Jun 2025 – Aug 2026

Wings Micro Systems LLC — Client: Qatar Airways | Doha, Qatar

- Delivered real-time “Always On” passenger upgrades, premium QSuites seat selection, and ancillary payment services across 3 Agile PODs (Upgrade, App Personalization, Loyalty), contributing to \$1M+ in monthly ancillary sales.
- Modernized legacy JSF monoliths into Spring Boot microservices using Domain-Driven Design and BFF APIs, improving maintainability and deployment velocity for customer-facing applications.
- Built distributed backend modules with Hibernate/JPA to manage partner integrations, frequent-flyer currency transactions, and tier-benefit calculations for the airline's core loyalty program.
- Engineered real-time push notification and personalized-salutation features via RESTful/JSON services, enhancing the digital onboarding experience for millions of passengers.
- Deployed rootless Podman containers to Kubernetes via automated Azure DevOps CI/CD pipelines, monitored distributed transactions in Elasticsearch (ELK), and enforced code-quality standards with SonarQube.
- Led and completed the full environment migration to QAC, coordinating cutover activities and validation testing to ensure a seamless transition with zero disruption to production services.

Module Lead – Systems (Full-Stack Developer)

Jul 2024 – Jun 2025

Mphasis Ltd | Bangalore, India

- Led development of a customer budgeting application providing real-time spend tracking across aggregated data sources, deployed on Kubernetes for scalability and reliability.
- Directed a zero-downtime migration from a legacy API to a modernized service, designing test and rollout strategies that minimized production disruption.
- Owned end-to-end delivery of a customer financial-insights platform — data ingestion, big-data processing jobs, APIs, cloud storage, and integration with Snowflake and downstream UI teams.
- Mentored new engineers and led architecture discussions for a customer net-worth aggregation feature spanning multiple data sources.

Assistant Manager (Full-Stack Developer)

Dec 2021 – Jul 2024

Reliance Jio | Navi Mumbai, India

- Migrated a legacy Spring JSP application to Spring Boot + Thymeleaf, improving performance and maintainability of the hardware-ordering and asset-profiling platform.
- Built Python data-analysis pipelines processing billions of daily CDR records across multiple supercores to surface dialed/dialer number insights.
- Delivered responsive UIs with Angular, Angular Material, HTML5, and Bootstrap, and integrated Kafka/MQ messaging for real-time system communication.
- Developed custom AEM components, templates, and workflows integrated with backend REST services, and shipped microservices for telecom inventory management.
- Streamlined CI/CD using Azure DevOps pipelines to deploy on GCP-hosted Reliance Cloud servers, improving release accessibility and scalability.

Back End Developer

Jun 2021 – Dec 2021

Pyramed Telemedicine | Mumbai, India

- Built REST APIs for an Admin Dashboard and mobile app covering authentication, filtering, and Electronic Health Records (EHR) using Spring Boot/Thymeleaf.
- Integrated a third-party payment gateway for order generation and implemented Sentry error monitoring and form.io for frontend/API interaction.
- Managed CI/CD build, test, and deployment on AWS via GitLab pipelines, validated with Swagger and Insomnia API testing.

Programmer Associate

May 2019 – Mar 2021

Decimal Point Analytics | Mumbai, India

- Maintained backend systems for airline fare management, investment portals, and CMS platforms, ensuring uptime and stability for critical business operations.
- Developed an index-based investment platform (Java Play Framework) with HighCharts visualization and a drag-and-drop CMS for a NYSE-listed mutual fund company.
- Automated processing of lakhs of Excel records via Apache Camel and POI, and wrote Python scripts to auto-monitor and recover 7+ live production sites.
- Supported ATPCO-based airline fare-rule and pricing-logic systems, and led migration of legacy systems to microservices with a focus on reliability and performance.

Software Developer Intern

Dec 2018 – May 2019

India Fastener | Mumbai, India

- Built UI/UX for a Learning Management System with a PHP/MySQL backend.

EDUCATION

M.Tech, Artificial Intelligence & Machine Learning

Oct 2022 – Oct 2024

BITS Pilani, India — Capstone: RAG-based LLM application (LLM APIs + vector search)

M.Sc, Computer Science — Grade A

Aug 2017 – Jul 2019

Mithibai College, Mumbai, India

B.Sc, Computer Science — Distinction, CGPA 7.00 (88.04%)

Jun 2014 – Jul 2017

University of Mumbai, Mumbai, India

RESEARCH PUBLICATIONS

- [Gambling Prediction Analysis — International Journal of Advance and Innovative Research \(IJAIR\), Vol. 6, Issue 1\(XXVIII\), pp. 120–123, 2019.](#)
- [Breast Cancer Detection Using WBCD — International Interdisciplinary Conference on Recent Trends in Science \(IICRTS\), 2019.](#)