DIOGO HENRIQUE FRAGOSO DE OLIVEIRA

Tech Lead | Software Architect | Azure & DevOps

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Professional Summary

Senior Full Stack Developer specialized in Angular (8+ years), with expertise from Angular 1 (AngularJS) to modern versions (17+). Expert in component architecture, Reactive Forms, RxJS, TypeScript, and Angular Material. Proven experience in critical security projects (OWASP/LGPD at Banco BMG) and technical leadership in front-end testing (Jasmine/Karma at AILOS). Strong full stack foundation with Node.js/NestJS, microservices, and CI/CD, ensuring end-to-end vision of enterprise applications.

Professional Experience

Senior Full Stack Developer (Angular) Apr 2022 – Mar 2025

Compass UOL (Remote)

Client: Banco BMG | *1 year and 6 months*

- **OWASP Front-End Security**: Implemented security validations in Angular (XSS prevention, CSRF tokens, input sanitization), ensuring LGPD compliance and hardening of critical banking forms
- **Angular Architecture**: Designed reactive components with RxJS (observables, subjects, operators), state management with BehaviorSubject patterns, and lazy loading for performance optimization
- **Advanced Reactive Forms**: Developed complex forms with async validators, custom masks, dynamic validators, and REST API integration
- **Angular Material & UI**: Implemented responsive interfaces with Angular Material, theme customization, and reusable components following design system patterns
- **Front-End Testing**: Structured Jasmine/Karma test suites with 80
- **Full Stack Integration**: Connected Angular applications with Node.js/NestJS backend, RabbitMQ messaging, and CI/CD pipelines in Azure DevOps

Client: AILOS Cooperative | *8 months*

- **Front-End Technical Leadership**: Led front-end squad for stabilization and critical bug fixes in enterprise Angular application (financial cooperative)
- **Angular Testing**: Structured and led complete Jasmine/Karma test suite implementation, creating patterns for unit tests, integration tests, and service mocks
- **Quality Pipeline**: Integrated tests into CI/CD with minimum coverage gates (70%), code smell analysis, and 40% reduction in release failures
- **Mentoring & Code Review**: Trained team in Angular best practices (component architecture, dependency injection, observables, lifecycle hooks, testing)

Full Stack Developer (Angular + Node.js) Nov 2019 – Oct 2021

Yalo (Remote)

- **Angular Front-End**: Developed administrative interfaces with Angular 8/9, including advanced search forms with Reactive Forms, paginated listings with Angular Material Table, and dynamic filters
- **Modular Architecture**: Implemented DDD (Domain-Driven Design) structure in front-end with lazy-loaded

modules, layer separation (presentation, domain, data), and reusable services
- **Reusable Components**: Created internal Angular component library (forms, tables, modals) following design system patterns for consistency across projects
- **REST APIs**: Developed Node.js/Express backend integrated with Angular front-end, implementing RESTful patterns and automation bots for partner integrations
- **Data Optimization**: Modeled and optimized PostgreSQL/MySQL schemas, improving critical query performance and implementing server-side pagination
- **State Management**: Used Angular services with RxJS for state management, data caching, and component synchronization

Hybrid Mobile Developer
Feb 2017 – Dec 2017

SCOND (On-site)

- **Angular 1 → Angular 2/6 Migration**: Led hybrid app migration from AngularJS 1.x to Angular 2/6, refactoring components, services, and implementing TypeScript
- **Angular Material (First Experience)**: Implemented Angular Material for the first time, creating modern responsive interfaces with Material Design components
- **Condominium Access Control**: Developed complete visitor, service provider, and resident control module with real-time validations
- **Camera Monitoring System**: Created security camera monitoring interface with real-time viewing and role-based access control (manager/concierge)
- **Facility Booking System**: Implemented interactive calendar with Angular Material Datepicker for booking barbecue areas, party rooms, and common spaces
- **Ionic + Cordova**: Managed build/deployment with Gulp/Bower, native plugin integration (camera, geolocation), and iOS/Android publishing

Education

Bachelor's Degree in Information Systems
2026 (expected)

Federal University of Santa Catarina (UFSC) 9th semester in progress.

+200h of research in robotics, computer vision, and 3D photogrammetry applied to Oil & Gas.

Technical Skills

Front-End & Angular

- **Angular:** Versions 1.x (AngularJS) → 17+ (standalone components, signals), TypeScript, RxJS (observables, operators), Reactive Forms, Dependency Injection
- **UI & State:** Angular Material, PrimeNG, Bootstrap, NgRx, Akita, BehaviorSubject patterns
- **Build & Testing:** Angular CLI, Webpack, Gulp, Bower | Jasmine, Karma, Cypress
- **Mobile:** Ionic (3+), Cordova, Capacitor

Backend & DevOps

- JavaScript, TypeScript, Node.js, NestJS, Express | PostgreSQL, MySQL, MongoDB
- Azure DevOps (CI/CD), Docker, IaC (Bicep) | SOLID, Clean Architecture, DDD, Microservices