

DIOGO HENRIQUE FRAGOSO DE OLIVEIRA

Senior Front-End Engineer (Angular) | Tech Lead

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📍 Trindade – Florianópolis/SC, Brazil

🌐 42robotics.com.br/pesquisas

Professional Summary

Senior Full Stack Developer with 8+ years of experience, specialized in Angular (AngularJS → Angular 17+), TypeScript, and scalable front-end architecture. Expertise in RxJS, Reactive Forms, Angular Material, and state management (NgRx/Akita), with focus on performance (OnPush change detection, lazy loading, and bundle/Core Web Vitals optimization). Experience in critical security projects (OWASP/LGPD at Banco BMG).

Professional Experience

Senior Full Stack Developer (Angular)

Apr 2022 – Mar 2025

Compass UOL (*Remote*)

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

- Impact:** Reduced production bugs by 40% through Jasmine/Karma testing with 80%+ coverage and OWASP validations, ensuring LGPD compliance in critical banking application
- Scalable Angular Architecture:** Designed feature modules with lazy loading and OnPush change detection, reducing bundle size and improving performance (Core Web Vitals)
- RxJS & State:** Implemented state management with BehaviorSubject patterns, RxJS operators (switchMap, combineLatest, debounceTime), and complex reactive flows
- Advanced Reactive Forms:** Developed banking forms with async validators, custom masks, dynamic validators, and robust error handling
- Security & Guards:** Implemented authentication/authorization guards, HTTP interceptors for JWT tokens, and OWASP validations (XSS, CSRF, input sanitization)

Client: AILOS Cooperative | *8 months*

- Impact:** Reduced release failures by 40% through CI/CD quality gates with 70%+ minimum coverage and rigorous testing standards
- Testing Leadership:** Structured complete Jasmine/Karma suite with unit tests, integration, service mocks, and testing patterns for enterprise application
- Architecture & Patterns:** Standardized feature modules structure, shared libraries, and folder organization following Clean Architecture in front-end
- Technical Mentoring:** Trained team in RxJS, lifecycle hooks, dependency injection, and Angular best practices through code reviews and pair programming

Full Stack Developer (Angular + Node.js)

Nov 2019 – Oct 2021

Yalo (*Remote*)

- Impact:** Accelerated feature delivery by 30% through reusable component library and modular DDD architecture in front-end
- DDD Architecture:** Implemented Domain-Driven Design in Angular with lazy-loaded feature modules, layer separation (presentation, domain, data), and reusable services
- Component Library:** Created internal Angular component library (forms, tables, modals, filters) following design

- system for consistency across projects
- **Reactive Forms & UX:** Developed advanced search forms with Reactive Forms, paginated listings with Angular Material Table, and dynamic filters
 - **Full Stack Integration:** Integrated Angular 8/9 front-end with Node.js/Express backend, implementing RESTful patterns and server-side pagination

Hybrid Mobile Developer

Feb 2017 – Dec 2017

SCOND (*On-site*)

- **Impact:** Modernized legacy application by migrating from AngularJS 1.x to Angular 2/6 with TypeScript, improving maintainability and performance
- **Angular Migration:** Led complete migration from AngularJS 1.x to Angular 2/6, refactoring components, services, and implementing TypeScript with strong typing
- **Angular Material (First Experience):** Implemented Angular Material for the first time, creating modern responsive interfaces with Material Design components
- **Condominium Features:** Developed access management modules (visitors, service providers), camera system with real-time viewing, and facility booking
- **Hybrid Mobile:** Managed Ionic/Cordova build and 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
- **Architecture:** Feature modules, lazy loading, OnPush change detection, trackBy, guards, interceptors, shared libraries
- **Build & Testing:** Angular CLI, Webpack, Gulp, Bower | Jasmine, Karma, Cypress | Code coverage 80%+
- **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