DOUGLAS RIBEIRO

Senior Front-End Developer | Angular & TypeScript | AI-Assisted Development

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SUMMARY

Senior Front-End Developer with 10+ years in front-end development and Angular since 2017, across banking, insurance, fintech and healthcare. Most recently the sole front-end developer on BMO's digital lending team, including the front end of a regulatory (AML) project the team delivered 35% ahead of schedule. Earlier built real-time trading dashboards at GFT with sub-second data latency. Founder of a full stack SaaS product, with an Angular 21 front end and a Python/FastAPI and PostgreSQL back end. UX design background: from Figma prototype to accessible, tested production code.

CORE SKILLS

- **Angular:** Angular 21, Signals, Standalone Components, NgRx, RxJS, Angular Material, Angular CLI
- **Front-End:** TypeScript, JavaScript (ES6+), HTML5, CSS3/SCSS, Tailwind CSS, Bootstrap, React, D3.js, Responsive Design, Mobile-First Design, Cross-Browser Compatibility
- **Architecture:** Micro-Frontends, Monorepos, Angular Migrations (13 through 21), Real-Time Data (WebSockets, Server-Sent Events), SPA/PWA, State Management, Component Libraries, Design Systems, Storybook, Lazy Loading, Code Splitting, Frontend Performance Optimization
- **AI-Assisted Development:** AI coding assistants, enterprise guardrails, workflow design, team enablement
- **APIs & Back-End:** REST, GraphQL, OAuth 2.0/JWT, Python (FastAPI, Flask), Node.js, PostgreSQL
- **Testing & Quality:** Jest, Vitest, Jasmine, Playwright (E2E), Unit Testing, Integration Testing, TDD, SonarQube, Code Review
- **Accessibility, i18n & SEO:** WCAG 2.2 AA, Keyboard Navigation, Screen Readers, ngx-translate, Transloco (EN/FR), Technical SEO
- **DevOps & Cloud:** CI/CD (Azure Pipelines, GitLab CI, Jenkins, GitHub Actions), Docker, Terraform, AWS, Firebase
- **UX & Process:** Figma, Prototyping, Wireframing, User-Centered Design, Agile/Scrum, Git

PROFESSIONAL EXPERIENCE

Senior Software Developer (Angular) | Contract

BMO (Bank of Montreal) | Toronto, ON (Remote) | Nov 2025 to Aug 2026

- Sole front-end developer in a 5-developer team within a 36-person program, delivering new features for BMO's digital loan application product across web and mobile on an established codebase
- Delivered the front end of an Anti-Money Laundering (AML) compliance project; the team completed development 35% ahead of schedule, about 2 months early
- Introduced AI-assisted development workflows, trained teammates on AI tooling, and maintained the team's AI assistant with enterprise-grade guardrails for code quality, security and testability
- Presented "Leveraging AI in Development Workflows" to 47 engineers
- Migrated the application from Angular 13 to Angular 19 within a micro-frontend architecture, and built bilingual (EN/FR), accessible features with Signals, NgRx and the BMO Design System, integrating with Java and Node.js services

Founder & Full-Stack Developer | Independent Product Development

Montreal, QC | Nov 2023 to Present

MailHive (SaaS, live in beta, 2025 to Present): AI-powered email and job-search assistant for job seekers

- Built the full product end to end in a monorepo: Angular 21 (upgraded from 15) with Signals and OnPush, and a Python/FastAPI back end on PostgreSQL
- Designed the product architecture and documented key decisions as decision records: real-time delivery over Server-Sent Events with PostgreSQL LISTEN/NOTIFY, a provider-agnostic AI layer, and a PostgreSQL-backed job queue
- Built with an AI-assisted workflow governed by automated guardrails: CI quality gates, front-end test coverage thresholds of 88-93% (Vitest), Playwright E2E smoke tests, lint rules and security scans

- Integrated Gmail and Outlook via OAuth, AI-powered email classification, subscription billing (Paddle), and infrastructure as code (Terraform) on Scaleway

Social app (Nov 2023 to 2025): social platform built with Angular, Flask, PostgreSQL and Firebase Authentication

Front-End Contributor (React) | Side Project

Consurf | Jul 2026 to Present

- Contributing to a convention-discovery website built with React, TypeScript, Vite, Tailwind CSS and server-side rendering (Express)
- Implemented technical SEO (indexing rules, HTTP status codes, sitemap, structured data), and built a six-page UX study prototype

Front-End Developer (Angular / React) | Short-Term Contract

RENAPS | Montreal, QC (Hybrid) | Jun 2025 to Sep 2025

- Refactored and optimized Angular and React code generated by the ORMIT migration tool for a large-scale Oracle Forms migration, integrating with REST and GraphQL APIs on a Spring Boot back end

Angular Developer & UX Lead | Full-Time

Wonderlabs Technologies | Montreal, QC (Remote) | Jan 2022 to Dec 2023

- Technical reference for front end and UX lead in a 3-person front-end team, building a PWA credit card platform serving 50,000+ users on web, iOS and Android
- Built virtual card and spending-limit features with Angular, NgRx, RxJS and Firebase Authentication, and migrated from Angular 13 to 15 in a monorepo
- Increased user engagement by 15% through a redesigned onboarding flow, and reduced deployment time by 20% by streamlining the Jenkins CI/CD pipeline
- Created the team's reusable component library and design system foundation with Storybook and Angular Material

Front-End Developer & UX Specialist | Full-Time

GFT Group | São Paulo, Brazil | Jan 2018 to Feb 2019

- Built real-time trading dashboards for investment firms with Angular, D3.js and WebSockets, keeping data latency under 1 second
- Led a 5-day design sprint with user testing for a new client product; 1st place in GFT's Agile Challenge 2018

Earlier Experience

- **UX Lead & Front-End Designer**, Strongest Families Institute, Halifax, NS (Remote) | Apr 2021 to Dec 2021: redesign of the IRIS mental health platform, supporting a successful $2M funding round; usability scores up 25%
- **Front-End Developer (Angular)**, BNP Paribas Cardif, São Paulo | Aug 2019 to Dec 2019: insurance activation portal built from scratch, reducing operational costs by 30%
- **Front-End Developer & UX Specialist**, Pasquali Solution, São Paulo | Feb 2019 to Aug 2019: migrated jQuery applications to Angular for 3 enterprise clients
- **Angular Developer**, Wellabe, Berlin (Remote) | Mar 2017 to Dec 2017: health check-up results platform for 10,000+ employees
- **Front-End React Developer**, Adoro Viajar, Brazil | Nov 2015 to Mar 2017: group-travel platform in React
- **Front-End Developer & UX Designer**, BNE, Brazil | Jan 2014 to Oct 2015: responsive sites for a job platform with 23M+ resumes

EDUCATION & LANGUAGES

- **Diploma in Big Data Science & Analytics**, Toronto School of Management, Toronto, ON, 2020 to 2021
- **Certifications:** Angular Programmer, TypeScript Developer, UX Designer Formation (Alura); Python & Flask (TalkPython)
- **Languages:** Portuguese (Native) | English (Full professional) | Spanish (Limited working) | French (Basic)