

# Filipe Amaral

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Florianópolis, Santa Catarina

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Full-Stack Engineer with nearly a decade of experience building SaaS platforms in healthcare, fintech, and insurance. I deliver end-to-end product features—from GraphQL APIs and compliance-driven systems to modern React frontends and high-performance data pipelines. I've built care plan modules, prior authorization workflows, real-time pricing engines with multi-vendor integrations, and wealth management platforms. I focus on scalable architecture, regulatory compliance, and shipping reliable systems.

## EXPERIENCE

### Senior Software Engineer | Advis

Nov 2025 - Present

- Building a full-stack wealth management platform using NestJS, Next.js, and TypeScript in a Turborepo monorepo
- Architected type-safe API client infrastructure with OpenAPI auto-generation and TanStack Query integration
- Established CI/CD pipeline with GitHub Actions, unified linting configs, and developer tooling across the monorepo
- Integrated with financial data providers (BlackDiamond, Wealthbox, Dottie) for portfolio and client management

### Senior Software Engineer | Surton / RxPartner

Aug 2024 - Mar 2025

- Built FastAPI backend for pharmaceutical pricing platform, integrating multiple claims processor vendors (Optum, RxLogic, Cervey, MedOne, Buzz) for real-time drug price comparison
- Implemented DynamoDB caching layer with client-specific API key caching and TTL-based invalidation for high-throughput price lookups
- Built transaction tracking system with detailed logging for pricing accuracy analytics and vendor performance monitoring
- Managed AWS infrastructure (Terraform) including EventBridge triggers, SQS queues, and multi-vendor credential management

### Senior Software Engineer II | DrChrono ↗

Aug 2021 - Present

- Led ONC HTI-1 and USCDI v3 certification compliance, implementing provenance tracking and persistent ID versioning for 15+ clinical resource types
- Built Care Plan module end-to-end: designed GraphQL schema, implemented React frontend with drawers/modals, integrated care team management with audit logging
- Developed SMART on FHIR integration platform with management dashboard, JWT authentication, and patient data access for third-party healthcare applications
- Implemented annual MIPS/eCQM quality measure updates (2022-2025) and QRDA exports for Cypress certification validation
- Optimized bulk C-CDA export system—resolved race conditions, added performance improvements, and implemented upper limits for large healthcare practices
- Built asynchronous C-CDA export API and contributed to React Calendar rebuild migrating from Angular

### Senior Software Engineer | Tomorrow Health ↗

Dec 2023 - Jun 2024

- Built Prior Authorization Request system end-to-end: GraphQL backend (Python/Django) and React frontend with tables, drawers, and timeline components
- Implemented PA cover sheet generation mutation, Title XIX (Medicaid) form integration, and fax submission workflow
- Extended insurer data model with state-specific prior authorization configurations

### Back End Engineer | Rise Financial

Jul 2022 - Nov 2022

- Restructured backend architecture in Django and integrated with Very Good Security to secure credit card data
- Achieved PCI compliance and enhanced system scalability

### Senior Software Engineer | BriteCore ↗

Dec 2017 - Jun 2021

- Replaced legacy insurance system with modular components using Python, Django, Flask, and VueJS on AWS
- Developed serverless authentication service for 50+ insurance companies using AWS Lambda and Cognito
- Supported clients by proposing features, resolving bugs, and improving system reliability

### Frontend Developer | localhost.company

Jun 2016 - Jun 2017

- Maintained and supported applications built in Angular 1.5 and AngularJS
- Ensured stability and functionality for ongoing client projects

## EDUCATION

### Bachelor of Science in Computer Science | Universidade Federal de São João del-Rei

Dec 2016

# CERTIFICATIONS

AWS Certified Developer | Amazon Web Services

Dec 2019

## SKILLS

**Backend Development:** Python, Django, FastAPI, NestJS, Flask, Celery, GraphQL, REST

**Frontend Development:** TypeScript, JavaScript, React, Next.js, Vue.js, AngularJS

**Databases:** PostgreSQL, MySQL, DynamoDB, SQL

**Cloud & Infrastructure:** AWS, Lambda, SQS, EventBridge, Cognito, Terraform, Docker

**Healthcare Standards:** HL7 FHIR, C-CDA, QRDA, eCQM, USCDI, ONC Certification, MIPS

**Architecture & Practices:** Microservices, Monorepos, CI/CD, PCI Compliance, Scalable Systems

## LANGUAGES

Portuguese (Native) • English (Fluent)