

Filipe Teixeira Amaral

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Summary

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 the development of reliable systems.

Tech: Python, TypeScript, Django, FastAPI, NestJS, React, Next.js, GraphQL, PostgreSQL, MySQL, AWS, Terraform

Experience

Senior Software Engineer

DrChrono · Full-time · Remote

August 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: GraphQL schema, React frontend with drawers/modals, care team management, and audit logging
- Developed SMART on FHIR integration platform with management dashboard and JWT authentication
- Implemented annual MIPS/eCQM quality measure updates (2022-2025) and QRDA exports for Cypress certification
- Optimized bulk C-CDA export system—resolved race conditions, added performance improvements for large practices
- Built asynchronous C-CDA export API and contributed to React Calendar rebuild

Senior Software Engineer

DevStride · Freelance · Remote

November 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, unified linting configs, and developer tooling across the monorepo

Senior Software Engineer

Surton · Freelance · Remote

August 2024 - March 2025

- Built FastAPI backend for pharmaceutical pricing platform, integrating multiple claims processor vendors (Optum, RxLogic, Cervey, MedOne) for real-time drug price comparison
- Implemented DynamoDB caching layer and transaction tracking for high-throughput price lookups
- Managed AWS infrastructure (Terraform), including EventBridge triggers and SQS queues

Senior Software Engineer

Tomorrow Health · Contract · Remote

December 2023 - June 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, Title XIX (Medicaid) form integration, and fax submission workflow
- Extended insurer data model with state-specific prior authorization configurations

Back End Developer

Rise Financial · Freelance · Remote

July 2022 - November 2022

- Restructured backend architecture in Django and integrated with Very Good Security for PCI compliance
- Secured credit card data handling and enhanced system scalability

Senior Software Engineer

BriteCore · Full-time · Remote

August 2017 - June 2021

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

Frontend Engineer

localhost.company · Full-time · Remote

June 2016 - July 2017

- Maintained and supported applications built in Angular 1.5 and AngularJS

Software Engineer

Universidade Federal de São João del-Rei · Internship · On-site · São João del Rei, Brazil

April 2014 - June 2016

- Developed internal tools for university administrative staff using PHP and MySQL

Education

Bachelor of Science, Computer Science

Universidade Federal de São João del-Rei

2012 - 2016

Languages

English (Professional Working) · Portuguese (Native)