Filipe Teixeira Amaral

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Summary

Full-Stack Engineer with 10+ years 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, data-intensive systems, and shipping reliable software. Comfortable working with AI tools and integrating LLM-powered features into production systems.

Tech: Python, TypeScript, JavaScript, FastAPI, Django, Flask, NestJS, React, Next.js, Vue.js, GraphQL, REST, PostgreSQL, MySQL, Redis, AWS, Terraform, Docker, Git

Relevant Experience

Senior Software Engineer
August 2021 - Present · 4 yrs 5 mos

DrChrono · Full-time · Remote

- 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

Lead / Senior Software Engineer
August 2017 - June 2021 · 3 yrs 11 mos

BriteCore · Full-time · Remote

- Led a team of 4 engineers to integrate a new insurance client—resulting in $2M+ in premium sold to 500+ customers
- Developed serverless authentication service (Lambda, Cognito) with SSO and MFA for 50+ insurance companies
- Replaced legacy system with modular microservices using Python, Django, Flask, and Vue.js on AWS
- Performed code reviews, mentored engineers, and translated client requirements into technical specifications

Frontend Engineer
June 2016 - July 2017 · 1 yr 2 mos

localhost.company · Full-time · Remote

- Built frontend for an online marketplace using Angular 1
- Migrated a collaborative document platform from Angular 1 to Angular 2

Software Engineer
April 2014 - June 2016 · 2 yrs 3 mos

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

- Refactored educational platform interface serving 1k+ teachers and 15k+ students
- Architected and developed an educational platform for primary school students using Flask and jQuery

Other Projects

- **Advis** (November 2025 - Present · 2 mos): Building wealth management platform with NestJS, Next.js, TypeScript; architected type-safe API client with OpenAPI and TanStack Query
- **RxPatterns** (August 2024 - March 2025 · 8 mos): Built FastAPI backend for pharmaceutical pricing, integrating Optum, RxLogic, Cervey, MedOne; DynamoDB caching, AWS infrastructure (Terraform)
- **Tomorrow Health** (December 2023 - June 2024 · 7 mos): Built Prior Authorization system end-to-end—GraphQL/Django backend and React frontend with Medicaid form integration
- **Rise Financial** (July 2022 - November 2022 · 5 mos): Restructured Django backend with Very Good Security integration for PCI compliance

Open Source

ccdakit

Open-source Python library for generating HL7 C-CDA clinical documents

Education

Bachelor of Science, Computer Science
2012 - 2016

Universidade Federal de São João del-Rei

Languages

English (Professional Working) · Portuguese (Native)