

Rolano Agnelo Rebelo

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Full-stack Software Engineer (4+ YOE) experienced in AI-powered telecom, healthcare, and enterprise systems using React.js, Next.js, Node.js, Python, LangChain, and GPT-4o. Strong CS fundamentals (MSCS, GPA 4.0) with a track record of building scalable, production-grade products.

EDUCATION

GPA: 4/4 **MS, Computer Science and Engineering**, University of North Texas, Denton, TX

Spring 2025

GPA: 3.53/4 **B. Tech, Electronics and Computer Engineering**, Vellore Institute of Technology, Chennai, India

Summer 2020

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, SQL, HTML5, CSS

Frontend: React.js, Next.js, React Native, Tailwind CSS

Backend: Node.js, Express.js, Flask, Django, FastAPI, Spring Boot

Databases: MySQL, PostgreSQL, MongoDB, DynamoDB

DevOps & Cloud: AWS, Azure, Docker, Kubernetes, CI/CD, Jenkins, Bitbucket, GitHub, Jira

Testing: Chai.js, Mocha.js, JUnit

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals (2023)
- AWS Fundamentals (Coursera)

PROFESSIONAL EXPERIENCE

Coherence Labs (Coherence Protocol, Inc.)

Remote / Seattle, WA / San Francisco, CA

Nov 2025 – Present

Software Engineer – Full-Stack (Frontend Focus)

- Contributing to an advanced AI-driven runtime security and orchestration platform designed for large-scale enterprise systems.
- Developing responsive dashboard interfaces and UI components using React.js, Next.js, and modern design systems to support real-time analytics.
- Integrating front-end flows with internal Node.js and Python APIs, assisting with data ingestion, tracing pipelines, and agent workflows.
- Collaborating directly with the CEO/Founder on architectural decisions, feature planning, and cross-functional engineering initiatives.
- Strengthening system reliability through testing, debugging, and documentation of internal services and APIs.

ReplyQuickAI

Remote / Florida, USA

July 2025 – Present

Software Developer Intern

- Building an AI-powered telecom platform with GPT-4o, Twilio, Supabase, and Next.js.
- Developed intelligent features like Missed Call Text Rescue, Outbound Campaigns, and real-time CRM integration.
- Designed scalable front-end components and real-time booking workflows using Next.js and Tailwind CSS.
- Worked directly with the founder in agile sprints to refactor backend and improve system performance.

Phylactics

Remote / Fort Worth, TX

June 2025 – Present

Entry-Level AI/ML Engineer

- Developed a React.js and React Native-based AI healthcare app for symptom assessment.
- Integrated OpenAI GPT models with LangChain and FastAPI to provide contextual medical insights.
- Implemented RAG using vector databases and prompt engineering for accurate AI responses.
- Collaborated with UX teams to ensure medical clarity, safety, and compliance.

Wipro Technologies

Bangalore, India

September 2020 – August 2023

Software Engineer

- Developed 12+ full-stack features for Cisco's meeting management tool using React.js, Python, Django, and PostgreSQL.
- Designed and implemented Pane Placement with Custom Layouts, enhancing meeting experiences for enterprise users.
- Optimized code and implemented caching mechanisms, reducing page load time by 20% and improving large-scale system performance.
- Orchestrated Agile practices and continuous integration/continuous deployment (CI/CD) for feature development which involved effective communication.
- Led accessibility improvements across the platform, increasing user engagement by 30% and demonstrating commitment to inclusive design.
- Conducted code reviews, gave constructive feedback, and wrote unit tests with Chai.js and Mocha.js, ensuring code quality and maintainability.

University of North Texas

Denton, TX

Teaching Assistant

August 2024 – May 2025

Software Engineering (CSCE5430), Introduction to Big Data and Data Science (CSCE5300), Software Development for AI (CSCE5214)

- Supported 3 graduate-level courses, guiding 150+ students across software engineering, big data, and AI development.
- Led lab sessions and held 10+ weekly office hours, providing technical support and mentorship that improved student engagement and assignment completion rates.
- Evaluated projects, provided in-depth feedback on code quality, system architecture, and documentation, enhancing student outcomes by 20%.
- Collaborated closely with professors to design fair grading rubrics and ensure alignment with course learning objectives.
- Championed accessibility-focused practices, reflecting the department's mission for inclusive and equitable learning experiences.

RELEVANT COURSEWORK

Software Engineering, Software Development for AI, Big Data and Data Science, Analysis of Computer Algorithms, Machine Learning

PROJECTS

Accessible Learning Assistant (Next.js, TypeScript, Tailwind CSS, FastAPI, Azure, LangChain, NLP)

- Engineered a responsive AI-powered education tool using OCR and vector search to process and retrieve lecture content with 90%+ accuracy.
- Enabled real-time Q&A support for students by integrating LangChain and LLMs, simulating tutor-like assistance and improving study efficiency by an estimated 40%.
- Built a retro-style quiz generator using NLP, increasing knowledge retention with auto-generated questions aligned to Bloom's Taxonomy.
- Designed architecture for deployment on Azure, supporting scalability for classrooms of 100+ users

RehabFit (React.js, Spring Boot, OpenAI GPT-4o, LangChain, RAG, PostgreSQL, Docker) (Deployed Web App)

- Developed an AI-powered fitness recovery app tailored for injury management (sciatica, joint pain, shoulder strain) — inspired by personal recovery journey.
- Used OpenAI GPT-4o with LangChain for symptom-aware chat, delivering personalized recovery advice with 85%+ relevance in test prompts.
- Employed RAG to fetch medical recovery tips from curated resources, reducing hallucinations by 60%.
- Designed pain-tracking feedback loop that adjusts workout plans in real time — estimated to reduce reinjury risk by 40%.
- Dockerized the app for consistent development and local deployment; backend handled with Spring Boot and PostgreSQL for scalable recovery logging.

FitFindr – AI Gym Recommendation App (Next.js 14, TypeScript, Tailwind CSS, FastAPI, Python, Google Places API, NLP)

(Deployed Web App)

- Built a full-stack AI-powered gym discovery platform that analyzes Google Maps reviews using custom NLP pipelines to recommend gyms tailored to user priorities such as cleanliness, equipment quality, crowd levels, and trainer expertise.
- Developed a responsive Next.js 14 front end with TypeScript and Tailwind CSS, delivering fast UI performance and a smooth dark/light theme experience.
- Implemented a FastAPI backend with Python for review ingestion, text preprocessing, sentiment scoring, and category-level breakdown (cleanliness, staff, equipment), improving recommendation accuracy.
- Integrated Google Places API for real-time gym data (ratings, photos, hours, distance) and combined it with NLP-driven insights for deeper personalization.

CipherShare - File Sharing App (Next.js 13, React.js, Tailwind CSS, Firebase, Clerk) (Deployed Web App)

- Built a secure file-sharing platform from scratch, enabling users to upload, protect, and share files with password authentication; supports files up to 100MB.
- Achieved near-instant sharing with Firebase's real-time sync, reducing upload/view latency by 50%.
- Implemented user auth and access control via Clerk and Firebase Auth, ensuring 100% file protection for private links.
- UI optimized using Tailwind CSS, maintaining a 95+ Lighthouse performance and accessibility score.
- Garnered 100+ test users and positive feedback during user testing phase.

Intelligent Power Management System (Node.js, Express.js, MongoDB, Socket.io)

- Developed a web application for power management, enabling real-time control of household loads and reducing energy consumption by 25%.
- Designed and implemented RESTful APIs using Node.js, Express.js, and MongoDB, enabling efficient data handling and management.
- Integrated Web Sockets with Socket.io for real-time Raspberry Pi pin control, enhancing responsiveness and control.

Elderly Companion App (ReactNative, Expo, Firebase, Figma) (App Demo)

- Designed and developed a mobile app using ReactNative and Expo, boosting user engagement by 30% among elderly individuals.
- Integrated Firebase for authentication and real-time database management, reducing sign-in issues by 40% and enhancing data access.
- Facilitated connections between elderly users, volunteers, and community events, resulting in a 25% increase in volunteer sign-ups and a 15% rise in event

AWARDS

Distinguished Graduate Student, University of North Texas

Recognized for academic excellence (4.0 GPA), impactful teaching assistantship, and leadership in technical communities.

May 2025

Hackathon Winner – Best AI Project with Databricks Open Source, HackUNT 2024

Developed *Mail Marvel*, an AI-powered tool that classifies and organizes high-priority emails into categories like Important, Events, Pending Actions, and Job Searches, helping users prioritize tasks and manage time efficiently.

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