

# 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

**Software Engineer – Full-Stack (Frontend Focus)**

Nov 2025 – Present

- 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.

**ReplyQuickAI**

Remote / Florida, USA

**Software Developer Intern**

July 2025 – Present

- 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

**Entry-Level AI/ML Engineer**

June 2025 – Present

- 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

**Software Engineer**

September 2020 – August 2023

- 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 (CSC5430), Introduction to Big Data and Data Science (CSC5300), Software Development for AI (CSC5214)*

- 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

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### **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

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### **Distinguished Graduate Student, University of North Texas**

May 2025

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

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

Issued by **Major League Hacking**, Oct 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.