Rolano Agnelo Rebelo

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Software Engineer with 3+ years of front-end development experience, specializing in React.js, Next.js, and JavaScript. Skilled in backend development with Node.js, Python, and Java. Proficient in building scalable, high-performance applications with a focus on accessibility and cloud technologies (AWS, Docker, Kubernetes). Seeing a **Software Developer or Full Stack Developer Role***.*

PROFESSIONAL EXPERIENCE

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 – *Software Engineering (CSCE5430)*   *August 2024 – Present*

- Instructed 140+ students on advanced software engineering concepts, data structures, and algorithms.
- Provided detailed feedback on code quality and system design, improving student performance by 15%.
- Conducted 10+ office hours per week, assisting students with course material, which increased assignment submission rates by 20%.

EDUCATION

GPA: 4/4	**MS, Computer Science and Engineering,** University of North Texas, Denton, TX	*Fall 2023 – 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, Golang, PHP, SQL, HTML5, CSS

Frontend: React.js, Next.js, React Native, Tailwind CSS
Backend: Node.js, Express.js, Flask, Django, FastAPI, Spring Boot, GraphQL
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)

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)
- Built a responsive AI-driven tool using OCR and vector databases to process lecture content.
- Integrated LangChain and LLMs to enable real-time AI-driven conversations for students.
- Developed a retro-style quiz generator using NLP to improve knowledge retention.

File Sharing App (Next.js 13, React.js, Tailwind CSS, Firebase, Clerk) (Deployed Web App)
- Developed a secure file-sharing application using Next.js 13 and React.js, enhancing performance and user experience.
- Utilized Tailwind CSS to create a responsive and customizable UI, improving user satisfaction.
- Integrated Firebase and Clerk for authentication and real-time data synchronization, ensuring secure and smooth user experiences.

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 participation.

AWARDS

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.