Rolano Agnelo Rebelo

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Master's in Computer Science student with 3 years of professional experience, actively seeking a full-time role. Strong communicator and collaborator with proven problem-solving skills and a track record of leading teams to successful project outcomes.

WORK EXPERIENCE

University of North Texas — Denton, TX
Teaching Assistant – Software Engineering (CSCE5430) — *August 2024 – Present*

- Instructed and mentored 140+ students, providing guidance on complex software engineering concepts and project development.
- Graded over 100 assignments and projects, delivering detailed feedback to improve student performance by 15%.
- Conducted 10+ office hours per week, assisting students with course material, which increased assignment submission rates by 20%.
- Collaborated with the professor to develop instructional materials and labs, improving course efficiency by 25%.

Wipro Technologies — Bangalore, India
Software Engineer — *September 2020 – August 2023*

- Led front-end development for a meeting management tool within an on-premises video conferencing platform.
- Implemented and enhanced 12+ features while collaborating seamlessly with backend developers and UI/UX designers, thereby reducing page load time by 20% by optimizing code and implementing caching mechanisms.
- Pioneered the creation of the Pane Placement with Custom Layouts feature, allowing users to create and apply custom layouts, enhancing the meeting experience.
- Employed technologies including React.js, HTML, CSS, JavaScript, jQuery, Python, Django, and PostgreSQL.
- Orchestrated Agile practices and continuous integration/continuous deployment (CI/CD) for feature development.
- Championed accessibility improvements across the platform, driving a remarkable 30% increase in user engagement.
- Implemented security and usability enhancements resulting in a streamlined and secure user experience.
- Wrote unit tests with Chai.js and Mocha.js, reducing bugs and improving product quality.

D-Link India Ltd. — Goa, India
Software Engineering Intern — *May 2018 – June 2018*

- Contributed to the development and testing of software solutions for D-Link's networking products, including routers, modems, and CCTV systems, resulting in a 15% increase in product stability.
- Implemented firmware updates, achieving a 100% success rate in deployment, which reduced customer complaints by 20%.
- Debugged and resolved critical software issues, enhancing performance and reliability, leading to a 25% improvement in system performance.

TECHNICAL SKILLS

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

Tools & Frameworks: React.js, Next.js, ReactNative, Firebase, Express.js, Node.js, Apache Spark, Chai.js, Mocha.js

Databases: MySQL, MongoDB, PostgreSQL, DynamoDB

Dev/Ops: CI/CD, Bitbucket, Git, Jira, Jenkins, AWS, Azure, Google Cloud

Certifications: Microsoft Certified: Azure Fundamentals 2023, The Complete Web Developer in 2023 (Udemy), AWS Fundamentals (Coursera)

Softwares: Microsoft Word, Microsoft Powerpoint, Microsoft Excel, Jupyter, Postman, VSCode, Eclipse

EDUCATION

GPA: 4/4 **MS, Computer Science and Engineering,** University of North Texas, Denton, TX — *May 2025*

GPA: 3.53/4 **B. Tech, Electronics and Computer Engineering,** Vellore Institute of Technology, Chennai, India — *June 2020*

PROJECTS

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.

Power Management System App (NodeJS, ExpressJS, MongoDB, Socket.io):

- Developed a web application for power management, enabling real-time control of household loads and reducing energy consumption by 25%.
- Implemented NodeJS, ExpressJS, and MongoDB for robust data handling and management, improving system efficiency and reliability.
- 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 participation.

Flight Delay Prediction using Big Data and Machine Learning (Python, Spark, Hadoop, Amazon EMR, AWS Glue, Scikit-learn, Jupyter Notebook)

- Developed a predictive model to forecast flight delays, achieving an accuracy improvement of 20% over baseline models using big data analytics and machine learning.
- Implemented data preprocessing and feature engineering on large datasets, reducing data processing time by 30%.
- Applied machine learning algorithms, including decision trees and random forests, to optimize model performance and enhance prediction reliability.