

Rolano Agnelo Rebelo

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WORK EXPERIENCE

Wipro Technologies

Bangalore, India

Software Engineer

September 2020 – August 2023

- Spearheaded **front-end development** for a meeting management tool within an on-premises video conferencing platform.
- Implemented and enhanced **12+ robust 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.
- 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.
- Implemented comprehensive unit testing using **Chai.js** and **Mocha.js** to ensure the reliability and robustness of the developed features, contributing to a **reduction in software bugs** and **enhancing** overall 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**.
- Participated in developing innovative features for networking devices, resulting in a **30% increase in functionality and user satisfaction**.

PROJECTS

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**.

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**.

Online Fashion Store (ReactJS, NodeJS, MongoDB):

- Developed a **responsive** e-commerce website using HTML, CSS, JavaScript, ReactJS, NodeJS, and MongoDB.
- Implemented **user-friendly** features such as product selection, checkout, and payment.
- Deployed the website on Netlify for wide **accessibility**.

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**.

TECHNICAL SKILLS

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

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

Testing Frameworks: Chai.js, Mocha.js

Databases: MySQL, MongoDB, PostgreSQL, DynamoDB

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

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

EDUCATION

University of North Texas, Denton, TX

Expected May 2025

Master's of Science, Computer Science and Engineering

GPA: 4

Relevant Courses: Software Engineering, Software Development with AI, ML, Analysis of Computer Algorithms, Intro to Big Data and Data Science

Vellore Institute of Technology, Chennai, India

June 2020

Bachelor of Technology, Electronics and Computer Engineering

CGPA: 3.53

Relevant Courses: Analysis of Data Structures & Algorithms, Database Management Systems, Computer Organization & Architectures, ML Algorithms, Operating Systems