Rolano Agnelo Rebelo

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WORK EXPERIENCE

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

- **Spearheaded** front-end development for a meeting management tool within an on-premises video conferencing platform.
- **Collaborated** seamlessly with backend developers and UI/UX designers to **implement** and **enhance** 12+ robust features, 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*

- **Assisted** in developing and testing software solutions for D-Link's networking products, including routers, modems, and CCTV systems.
- **Contributed** to the design and implementation of firmware updates, achieving a **100% success rate** in deployment.
- **Collaborated** with the software development team to debug and resolve issues, **enhancing** the performance and reliability of networking software.
- **Engaged** in research and development of new features for networking devices, **resulting** in **improved** functionality and user experience.

PROJECTS

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

- Designed and developed a mobile app using ReactNative, Expo, Firebase, and Figma.
- Enabled elderly users to search for volunteers and engage with neighbors and events.
- Leveraged ReactNative for frontend development and Firebase for authentication and database management.

File Sharing App (Next.js 13, React.js, Tailwind CSS, Firebase, Clerk)

- Developed a secure and efficient file-sharing application using Next.js 13 for server-side rendering and React.js for a dynamic frontend.
- Utilized Tailwind CSS for responsive and customizable UI design.
- Integrated Firebase for authentication, database management, and real-time data synchronization.
- Implemented Clerk for robust user authentication and management.

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

- Created a web application for efficient power management, incorporating control of household loads and MicroGrid transactions.
- Utilized HTML, JavaScript, NodeJS, and ExpressJS, with data storage in MongoDB.
- Used Web Sockets by integrating Socket.io for Raspberry Pi pin control.

Online Fashion Store (JavaScript, 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 using big data analytics and machine learning techniques.
- Implemented data preprocessing and feature engineering on large datasets.
- Applied machine learning algorithms including decision trees, random forests, and optimized models for better accuracy and performance.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML, CSS, jQuery

Tools, Libraries & Frameworks: React.js, Next.js, ReactNative, Firebase, Express.js, Node.js, Apache Spark, Hadoop, Django, Websockets

Testing Frameworks: Chai.js, Mocha.js, JUnit

Databases: MySQL, MongoDB, PostgreSQL, DynamoDB, Cloud Firestore

Dev/Ops: CI/CD, Bitbucket, GitLab, AWS, Azure

Certifications: Microsoft Certified: Azure Fundamentals 2023

Development Environments: Visual Studio, Eclipse

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, Data Communication Networks, Machine Learning Algorithms, Operating Systems, Computer Vision, Software-Hardware Co-Design