ROHAN BALDHA

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EDUCATION

Santa Clara University   **Santa Clara, CA**
M.S. Computer Science   *September 2022 – Present*
- **GPA:** 3.6
- **Relevant Courses:** Advance Operating Systems, Machine Learning, Artificial Intelligence, Distributed Systems, Product Management, Object Oriented Analysis and Design, Computer Architecture

PROFESSIONAL EXPERIENCE

Applied Systems Engineering, Inc. (ASE) (Grid Automation Lab Supported by Intel)   **Campbell, CA**
Application Engineering Intern   *June 2023 – Present*
- Orchestrated the integration and configuration of new hardware, acting as a pivotal contact across teams, reducing system downtime by 25% , ensuring project alignment with production timelines.
- Executed virtualization projects to simulate protection relay scenarios, optimizing VPR(Virtual Protection Relay) Algorithm performance for system robustness, improving the performance testing efficiency by 30%.
- Led system configuration and performance testing, collaborating with engineering teams to meet and exceed project benchmarks.
- Facilitated stakeholder demonstrations, articulating complex technical concepts and system functionalities to clients, ensuring clear understanding and buy-in.

Safe Security   **New Delhi, India**
Software Engineer   *Jan 2020 – December 2021*
  SCA (Security Configuration Assessment) -
- Developed and implemented a novel service called SCA (Security Configuration Assessment), enhancing IT security compliance for various IT assets, which slashed non-compliance devices by 40%.
- Engineered automated scripts for assessing network, database, and server assets (CISCO,HPE switches and routers, Ubuntu and RHEL Linux variants, MySQL, MSSQL, ORACLE, and Postgresql databases), centralizing and refining the compliance tracking mechanism.
  Rocinante -
- Spearheaded the development of Rocinante, an automated data pipeline facilitating direct data transfer from Spreadsheets to database systems, enhancing process efficiency.
- Authored precise Python scripts for data parsing and validation, which led to a marked improvement in data accuracy and system efficiency, yielding a daily labor savings of 6+ man-hours.
- Utilized Jenkins for process automation, which ensured a consistent and error-free data management workflow across the system.

ACADEMIC EXPERIENCE

Carbon FootPrint Tracker   **Santa Clara University, CA**
Coursework - Object Oriented Analysis and Design   *September 2023 – October 2023*
- Developed a Carbon Footprint Tracker site using React.js and Spring Boot, hosting 1,000+ users with user authentication, profile management and detailed carbon calculator.
- Implemented dynamic progress trackers and personalized suggestions, aiding users in making eco-conscious decisions and effectively reducing their carbon footprints.
- Designed an interactive platform promoting community engagement, advocating for sustainable living, and emphasizing connection for environmental impact.

Air Quality Prediction for Pollution Management using Regression Analysis   **Santa Clara University, CA**
Coursework - Machine Learning   *April 2023 – June 2023*
- Engineered a predictive model for Air Quality Index (AQI) by applying regression analysis on air quality data from Delhi, aiming to forecast pollution levels.
- Utilized time-series analysis and feature extraction, implementing a Correct/Incorrect prediction metric to refine model assessment and air quality predictions.
- Attained approximately 90% prediction accuracy utilizing Random Forest and LightGBM Regression models, significantly improving pollution management with dependable AQI forecasting.

SKILLS & INTERESTS

Skills: C, C++, Java, Python, SQL, Git, HTML, CSS, JavaScript, React, Data Structures and Algorithms, Regex, Linux, Scripting, Docker, Virtualization Technologies (KVM/VMware), Spring Boot, Flask, JIRA, Confluence

Interests: Table Tennis, Basketball/NBA, Investing, Poker, App Development, Music, Swimming