Anuj Waghulde

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PROFILE

"Highly motivated and detail-oriented software professional with a strong foundation in C++ and Python, and hands-on experience in networking concepts and RESTful API integration. Skilled in developing and testing robust software solutions with a focus on performance, reliability, and scalability. Adept at collaborating within cross-functional teams, troubleshooting network-related issues, and automating workflows using REST APIs. Eager to contribute to innovative projects and further enhance expertise in software development and network-based systems."

EDUCATION

- **Bachelor's of Engineering (B.E.), Computer Engineering, Data Science (Hons)**
  PCET'S Pimpri Chinchwad College of Engineering and Research, Ravet, Pune.   2020-2024
  CGPA - 9.11
- **HSC (12th), Science**
  Swami Vivekanand Jr. College, Moolji Jetha College, Jalgaon.   2018-2020
  Percentage - 85.23%
- **10th CBSE**
  Rustomjie International School, Jalgaon.   2018
  Percentage - 86%

SKILLS

- **PROGRAMMING LANGUAGES :** Python, Java, C/C++, Javascript, PHP
- **DATA STRUCTURES & ALGORITHM**
- **DATABASES :** MYSQL, MongoDB, Firebase
- **DEVOPS & AUTOMATION :** Git & Github actions, Selenium, REST API's, Automation
- **TECHNOLOGY :** Computer Networking, HTML5, CSS3, JS, Flask, Django, React JS, Express JS, Node JS, Machine Learning, Data Science, Data Analytics
- **OPERATING SYSTEMS :** Linux, Windows
- **OTHER SKILLS :** Problem Solving, Teamwork, Volunteering

EXPERIENCE

Semtech Advanced Systems   July 2024 - Present
Engineer - I , SVT/QA/QC Automation Engineer
- Designed, developed, and maintained automation test scripts using Python and Selenium, focusing on networking devices with cloud integration.
- Performed both manual and automated testing of router features to validate functionality, reliability, and performance.
- Conducted comprehensive REST API testing, logged defects, and collaborated closely with developers to ensure timely resolution.
- Leveraged JIRA for issue tracking and test case management, ensuring full coverage and traceability across all test scenarios.
- Integrated test automation into CI/CD pipelines (using tools such as Jenkins/GitLab CI), improving test efficiency and reducing release cycle times.
- Developed automation and validated key features such as GPS, ALMS (cloud platform), SNF, Admin interface, Status monitoring, Application services, Event Reporting, Firmware Upgrade/Downgrade, and Telnet/SSH.
- Worked extensively on industrial-grade AirLink routers such as XR90, XR80 (5G), RV55 (rugged LTE), LX60 (LTE/Wi-Fi), and MP70 (mobile), used across domains like public safety, transportation, energy, enterprise networking, and smart cities.
- Tested devices running on AOS (AirLink OS) and ALEOS, with full lifecycle validation through cloud platforms ALMS (AirLink Management Service) and AMM (AirLink Mobility Manager) for remote monitoring, management, and deployment.
- Focused on end-to-end validation, from embedded device-level functionality to seamless cloud integration, ensuring robust and scalable connectivity solutions.

Semtech Advanced Systems   July 2023-June 2024
Intern SQA/Solutions
- Gathered and documented detailed information on various AirLink routers, modules, and hardware platforms.
- Created automation scripts for configuring and managing builds on devices and cloud platforms like ALMS.
- Developed basic dashboards for visualizing test results and monitoring system health.
- Performed manual and automated testing to validate router performance, stability, and connectivity.
- Assisted in REST API validation and contributed to early-stage issue identification and reporting.
- Gained hands-on experience with router platforms such as AOS and ALEOS, and cloud solutions like ALMS and AMM.

- **Vspace Software Pvt. Limited**   **April 2023–May 2023**
  Software Developer Intern
  - Contributed to the development of a Machine Learning–based solution for a dental diagnostics project.
  - Designed and trained classification models to predict tooth types (e.g., bifurcated, long, narrow) from dental imaging data.
  - Developed an automated pipeline for sorting and categorizing tooth structures based on shape and morphology.
  - Integrated disease prediction logic to detect dental issues based on classified tooth types and patterns.
  - Collaborated with the team to build a complete ML model aimed at improving dental diagnosis accuracy and automation.

OTHER EXPERIENCE

- **Member of Google Developer Student Club**
- **Member of Geeks for Geeks Student Club**
- **Technical Lead at TECHNOVATE Event**

PROJECTS

- **TECHNOVATE 2k23 : Technical Event Website at PCCOER**
  Technology : React JS
  - Designed and developed a modern, responsive website for TECHNOVATE 2k23, a flagship technical event at PCCOER.
  - The site showcased event details, registration options, schedules, and updates, aiming to boost student engagement and participation.
- **Cineflix – Movie Review and Streaming Platform (TIAA Hackathon Project)**
  Technology : React JS, Node JS, MongoDB, Tailwind CSS, Express JS, Firebase
  - Built a full-stack web application where users can explore movies, post reviews, comment, and stream trailers.
  - Implemented secure user authentication, integrated Firebase for real-time updates, and used MongoDB for data persistence.
- **Dental Tooth Disease Prediction**
  Technology : Python, Machine Learning
  - Created a machine learning pipeline to classify different tooth types (e.g., bifurcated, long, narrow) based on shape and structure data.
  - Trained the model to detect and predict potential dental diseases, enabling data-driven dental diagnosis and support tools for healthcare professionals.
- **Mindmate : Mental Health Prediction and Smart Recommendation System**
  Technology : Python, Flask, Machine Learning, OpenCV, HTML, CSS, JavaScript, REST APIs
  - Developed a mental health assistant that predicts emotional and psychological health using textual input and facial expression analysis.
  - Included features like a depression calculator, suicide risk detection, therapy recommendations, motivational content, chatbot integration, and map-based therapist location finder.
- **Health Care App**
  Technology : Flutter, Dart
  - Built a cross-platform mobile app to assist users with long-term health conditions.
  - Features included a healthcare chatbot, personalized exercise suggestions, nearby doctor search, health tips, and BMI calculator, all within a clean and accessible interface.
- **Automated Face Lock with Python and Arduino**
  Technology : Python, OpenCV, C/C++, Machine Learning
  - Developed a real-time facial recognition-based locking mechanism integrated with Arduino hardware.
  - Enabled secure access using biometric facial data, improving physical security through automation and computer vision.
- **Chemical Company Website**
  Technology : HTML, CSS, JavaScript, MySQL
  - Created a corporate website for a chemical company to manage and display product offerings.
  - Integrated backend database for managing inventory, product listings, and customer inquiries efficiently.
- **Blood Bank Management System**
  Technology : Python, Django, SQLite, HTML
  - Developed a web application to manage end-to-end blood bank operations.
  - Functionality included donor/recipient registration, blood requests, admin approval flow, real-time stock management, and notification system.
- **Interactive Dashboards to Showcase Testcases Run – Pass/Fail/Error, Feature/Time (Semtech)**
  Technology : Python, Plotly, Flask, MYSQL, HTML
  - Built an analytics dashboard to visualize automated test results for embedded networking devices.
  - Showcased test case metrics like pass/fail/error counts, time duration, and feature-based sorting. Helped identify critical failures and optimize test cycles for QA teams along with CI/CD teams.
- **Voice-Controlled Router Management System (Internal Hackathon – Semtech)**
  Technology : Python, Flask, REST API, Speech Recognition, ALMS (Cloud)
  - Developed a smart voice assistant system to perform router operations such as firmware install, synchronization, status check, and basic settings configuration using voice commands.
  - Utilized speech-to-text processing and REST API calls to communicate with cloud platforms like ALMS and control router behavior in real time.
  - Designed for enhanced accessibility and next-gen automation for networking devices.

AWARDS AND ACHIEVEMENTS

- **Patent Grant :** "Language Learning Robotics Assistant- Application having Second Position, Application No: 415490-001, Cbr No: 207307, Cbr Date: 01/05/2024.
- **Copyright Grant :** MINDSCAPE : Sucidal Contagion, Transforming Mental Well-being Through Advanced Machine Learning and Compassionate Support, Diary No: 30659/2023-CO/L, Date : 30/01/2024.
- **Research Paper** on Android based HealthCare Application at IJIES/ICRASET.
- **Research Paper** on Mental Health Detection and Smart Recommendation System at IJIRCCE.
- **ICPC Regionalist 2023-24**, Two Regionals Kanpur, Amritapuri (International Level Programming Contest)
- **Ranked 5th in MaTPO Programming idol (**Maharashtra Level).
- **Winner at TIAA Hackathon.**
- **4 Star** coder at Codechef (Highest Rating 1766).
- **Pupil** coder at Codeforces (Highest Rating 1315).
- **Knight** at Leetcode (Highest Rating 1959, Top 3%).
- **Meta Hacker Cup,** Cleared Round 1.
- **Gate Exam 2024 Qualified.**
- **Secured 1st** rank in Code-Marshal 4.0 Event, **2nd** rank in Hacker Halloween Event, **2nd** rank in Decypher Event (Inter-college coding event) at MMCOE.
- **Secured 1st** rank in C-Cube club event (fast coding event), **2nd** Rank in The BroCode Event, **3rd** Rank in Code Combat Event (Inter-college coding event) at PCCOER.

CERTIFICATION

- Machine Learning A-Z
- Core Java Programming
- Python to interact with OS
- Crash Course on Python
- Complete Web Development Bootcamp