

Prathamesh Upadhye

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EDUCATION

St Francis Institute of Technology, Mumbai University, India

Graduated with a Bachelor of Engineering in Information Technology with *Distinction*
Honors in Cybersecurity

July 2024
(CGPA 7.65/10)

Nirmala Memorial Foundation Junior College, Mumbai, India

Secured *Distinction* in Higher Secondary Certificate
(62.31%)

March 2020
Examination

PROFESSIONAL EXPERIENCE

Testriq QA Lab LLP, Thane, India

June 2024 – Present

Testriq QA LLP is a quality assurance (QA) and testing services company that focuses on providing comprehensive testing solutions for software applications.

Software Test Engineer

July 2024 – Present

- Executing smoke testing and regression testing to validate software functionality and stability after changes or updates.
- Performing security testing to identify vulnerabilities, ensuring applications adhere to best practices and compliance standards.
- Collaborating with clients to provide tailored solutions, gather requirements, and address specific testing needs.
- Conducting manual and automation testing using version control software to streamline the testing process and improve efficiency.
- Identified and resolved bugs throughout the web development lifecycle, leveraging tools such as Jira and TestRail for effective tracking and reporting
- Assigned to implement testing strategies and frameworks to enhance the overall quality assurance process, fostering continuous improvement within the team

Software Test Intern

June 2024 – July 2024

- Studied how to write effective test cases for various applications, ensuring comprehensive coverage of functional requirements
- Tasked with identifying and documenting bugs during manual testing processes, providing clear and actionable feedback to development teams
- Carried out thorough software testing to ensure application quality, including exploratory testing to uncover edge cases and unexpected behavior
- Assisted in creating and maintaining test documentation, contributing to a structured testing process

Epic Games, Cary, North Carolina, USA (Remote) 2024

May 2022 – November

Public Beta Tester – "Fall Guys"

- Participated in the beta testing phase of "Fall Guys," identifying bugs and providing actionable feedback
- Undertook comprehensive testing to ensure game functionality and stability after updates.
- Collaborated with development teams to gather requirements and address specific testing needs.
- Utilized Discord for real-time bug reporting and communication with the testing team.
- Assigned to execute both manual and automated testing methodologies to enhance testing efficiency.
- Discovered a critical game-breaking bug in the voice chat system, demonstrating the ability to identify high-impact issues.

ACADEMIC PROJECTS

Automated Drone Delivery System

- Developed a secure web application using Flutter for frontend development and Firebase for backend management and real-time data synchronization, ensuring the safety of drones during delivery operations
- Designed and integrated Google Maps UI for real-time route visualization and optimized delivery path planning, enhancing operational efficiency
- Employed Firebase for backend management, ensuring reliable data synchronization and scalability to accommodate varying delivery volumes
- Introduced security protocols to protect data and prevent unauthorized access, enhancing system integrity and user trust
- Incorporated real-time notifications for users to track delivery status and receive updates on drone locations
- Carried out thorough testing and debugging of the application to ensure seamless functionality across devices, resulting in a robust and user-friendly experience
- Technologies used: Flutter, JavaScript, Firebase, Google Maps API, Security Protocols

PScanner (Network Scanning Tool)

- Built a Python-based tool for advanced network scanning, identifying open ports, and mapping network devices to enhance network visibility and management
- Deployed OS fingerprinting to determine the operating systems running on detected devices, improving network visibility and enabling targeted security measures; incorporated service enumeration to detect running services and unpatched vulnerabilities, enhancing proactive security measures and facilitating risk assessment
- Applied network segmentation and vulnerability patching to mitigate risks from exposed services and ports, bolstering overall network security posture; integrated a user-friendly interface using React for easy navigation and reporting, allowing users to quickly analyze scan results and implement necessary actions.
- Introduced scheduling features for automated periodic scans, ensuring continuous monitoring of network security and timely identification of new vulnerabilities; developed comprehensive documentation and user guides to facilitate tool adoption and effective utilization by network administrators and security teams
- Technologies used: Python, Scapy, Nmap, OS Fingerprinting, Service Enumeration

Keylogger (Ethical Data Logging Tool)

- Involved in designing a Python-based keylogger for ethical research on vulnerabilities in unauthorized data access, contributing to the understanding of security flaws
- Integrated encryption to securely store captured data, ensuring sensitive information remained protected and encrypted at all times
- Implemented restricted access mechanisms to prevent unauthorized retrieval of logged data, maintaining ethical usage standards and compliance with privacy regulations
- Programmed a monitoring system using Python with PyHook and Pynput libraries to analyze user input in controlled environments without breaching privacy guidelines, ensuring ethical data collection
- Devised a user consent framework using Python and Flask to ensure participants were fully informed about data collection practices, reinforcing ethical research principles
- Conducted thorough testing and validation of the keylogger to ensure reliability and accuracy, minimizing potential disruptions in controlled environments
- Technologies used: Python, PyHook, Pynput, Data Encryption, Access Control

TECHNICAL SKILLS

- **Programming and Scripting:** Python, Bash, and PowerShell for automation and security scripting.
- **Networking and Network Security:** TCP/IP, firewalls, VPNs
- **Tools:** Wireshark and Nmap
- **Operating Systems:** Expertise in Linux (Kali, Parrot), Windows, and macOS with OS hardening skills.
- **Penetration Testing Tools:** Experience with Burp Suite, OWASP ZAP, Metasploit, and Nessus for ethical hacking.
- **Cloud Security:** Knowledge of AWS, Azure, GCP security practices, and cloud workload protection
- **Version Control:** Proficient with Git, GitHub, and Jira for version control and collaboration

EXTRACURRICULAR ACTIVITIES

- Managed event flow and coordinated activities as a Stage Admin Volunteer at Mumbai ComicCon (2023-24), ensuring a seamless experience for attendees; involved in troubleshooting any issues that arose and facilitating communication between different teams
- Led initiatives to boost student engagement through workshops and networking events as Vice President of the IT Students' Association (ITSA) at St. Francis Institute of Technology (2023); collaborated with faculty to create valuable opportunities for students to connect with industry professionals
- Participated in the Valorant tournament held at Shree LR Tiwari College of Engineering for the fest called MetaSummit (2023)
- Facilitated the smooth execution of live esports events as a Stage Admin and Operator at the SkyEsports LAN Event (2023); coordinated logistics and ensuring that all technical aspects ran without a hitch, contributing to a successful event
- Achieved consecutive victories as a participant in the Zephyr Rocket League Tournament (2022-23), showcasing strategic gameplay and teamwork.
- Volunteered in St Francis Institute of Technology campus blood donation drives (2022-2023), raising awareness and supporting community health; promoted the events and encouraged fellow students to contribute to this important cause