Prasanth Sagar Kottakota

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EDUCATION

Syracuse University — Syracuse, NY, USA
Master of Science in Computer Science — *Aug 2022 – May 2024*
- CGPA : 3.93/4.00

National Institute of Technology Karnataka — Surathkal, KA, IN
Bachelor of Technology in Computer Science and Engineering — *Aug 2016 – May 2020*

WORK EXPERIENCE

Graduate Teaching Assistant — August 2023 – Present
Syracuse University — *Syracuse, NY, USA*

Software Development Engineer in Test — August 2020 – July 2022
McAfee, Inc — *Bangalore, KA, IN*
- Designed and implemented scalable test automation frameworks (**Selenium, PyTest**) to streamline testing.
- Reduced testing time by a substantial 2 weeks for each of the **12+ releases** by incorporating reusable automated test scripts and **CI/CD** pipelines, showcasing my pivotal contribution to automation and teamwork.
- Automated performance testing using **Python, Ixia BPS APIs, and Selenium**, resulting in substantial time savings of 12 hours per testing cycle and 2 weeks per release cycle. Integrated with NSAT testing framework.
- Engaged in NSM **UI Automation** Project, which involved **Python** and **Selenium** to systematically assess **350+** UI elements on webpages. Delivered metrics-based insights for improved testing efficiency and quality assurance.
- Performed Regression, Performance, Upgrade, and Hetero Testing, detecting **100+ high severity bugs** on product front. Collaborated with cross-functional teams for timely resolution.
- Leveraged **Jira** for efficient defect tracking and resolution while analyzing test results.
- Used **postman** to build ,test and modify API's for mobile, web based applications.
- Setting up an **agile** project with creating scrum boards, backlog stories ,burndown charts, sprints for product releases.
- Created and improved the automation framework using the **GIT versioning control**, managed the pull requests.
- Conducted performance tests (**JMeter, Ixia Breaking point system**) for 25% increased application responsiveness, to measure application performance and identify bottlenecks.
- Configured and managed complex test environments(60+ clientserver, 40+ McAfee IPS, 5 VMware ESXi devices).
- Ensured accurate production environment replication, cutting environment-related defects by **95%**, saving approximately **18 hours** per critial bug.
- Collaborated with **cross-functional teams**, providing valuable feedback and ensuring seamless communication .
- Led a team of interns in developing Python wrapper scripts to automate APIs.

Machine Learning Researcher — May 2019 – June 2019
NITK Surathkal — *Mangalore, KA, IN*
- Engineered classification algorithms for **keystroke dynamics**, integrating keyboard pressure. Achieved a 25% accuracy boost in user authentication

CERTIFICATIONS

- AWS Certified Solutions Architect – **Associate** - AWS (2024)
- Google Data Analytics **Professional** Certificate - Google (2022)

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, Haskell, Bash, SQL, HTML/CSS, Javascript, R
Databases: MySQL, Oracle, MongoDB, Amazon RDS, Redshift, Aurora
Testing Frameworks: Selenium, PyTest, JUnit
Performance Testing: Ixia BreakingPoint, JMeter, Spirent TestCenter
Developer Tools: Postman, Docker, kubernetes, AWS, Jenkins, Maven, VS Code, VM Ware, PyCharm, Eclipse
Collaboration Tools: Confluence, Jira, Github
Data Analysis: Pandas, NumPy, Matplotlib, Scikit-learn
Software Development: Agile, SDLC, Git
Operating Systems: Fedora, Ubuntu, Linux, Windows, MacOS
Protocols:HTTP, TCP, IP, VLAN, FTP, SNMP, DNS, SSL, TLS, MPLS and SNMP
Testing: Regression, Performance, Stability, Integration, Unit, Functional, Sanity, Acceptance, Upgrade, End to End

RELATED PROJECTS

Automated McAfee NSP Performance Testing | *Python, Selenium, SQL, BPS, Git*	June 2021 – May 2022
Customer Database Backup Automation and Bug Detection | *Python, Git*	Dec 2021 – April 2022
Online Examination System | *link, PHP, MySQL, Apache HTTP, HTML/CSS, AWS*	Jan 2023 – May 2023
Automation of Assignment evaluation | *Python, Git, Bash*	Oct 2023 – Present