# Prasanth Sagar Kottakota

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## Education

**Syracuse University** — Syracuse, NY, USA
*Master of Science in Computer Science* — *Aug. 2022 – Dec 2023*
- CGPA : 3.95/4.00

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

## Work Experience

**Software Engineer** — 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 **20+ 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.
- 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.

## Technical Skills

**Programming Languages**:Python, C/C++, Java, Haskell, Bash, SQL, HTML/CSS, R
**Testing Frameworks**: Selenium, PyTest, JUnit
**Performance Testing**: Ixia BreakingPoint, JMeter, Spirent TestCenter
**Developer Tools**: Git, Docker, kubernetes, AWS, Jenkins, Maven, VS Code, VM Ware, PyCharm, IntelliJ, 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
- Led 11-month project automating network security performance testing using **Ixia BreakingPoint API's** and **Python** which Significantly reduced testing time from 6 to 2 hours per device and 2 weeks per release cycle.
- **Led a team of 3**, ensuring successful project integration with the existing automation framework.
- Developed comprehensive results reporting through a user-friendly **UI** and **private server**.
- Recognized as **best TOP3 initiative** in the network security team.

**Customer Database Backup Automation and Bug Detection** | *Python, Git* — Dec 2021 – April 2022
- Developed **Python automation code** to test customer DB backups during software releases at McAfee.
- Integrated code into testing framework for comprehensive **cross-software deployment** and functional testing.
- Improved code segment to verify software functionality post-version changes in backups, detecting critical bug, averting potential catastrophic collapse, and safeguarding **$50 million** in device value.

**Online Examination System** | *link, PHP, MySQL, Apache HTTP, HTML/CSS, AWS* — Jan 2023 – May 2023