

Prasanth Sagar Kottakota

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EDUCATION

Syracuse University

Master of Science in Computer Science

Syracuse, NY, USA

August 2022 – December 2023

- CGPA : 3.95/4.00
- Related CourseWork : Design and Analysis of Algorithms, OS, Computer Architecture, DBMS, ML for Security

National Institute of Technology Karnataka

Bachelor of Technology in Computer Science and Engineering

Surathkal, KA, IN

August 2016 – May 2020

TECHNICAL SKILLS

Programming Languages: Python, C/C++, JavaScript(ES6+) Java, Haskell, Bash, SQL, HTML5/CSS3, R, PHP

Front-End: React.js, Vue.js, Angular, jQuery

Back-End: Node.js, Express.js, Python(Django, Flask), RESTful API's

Databases: MongoDB, MySQL, PostgreSQL, SQLite, phpMyAdmin (Database Management)

Version Control: Git, GitHub

Tools: Visual Studio Code, Sublime Text, Postman, MongoDB, Django, XAMPP

Deployment: AWS, Jenkins, Heroku

WORK EXPERIENCE

Software Engineer /QA Automation and Release Engineer

McAfee, Inc.

August 2020 – July 2022

Bangalore, KA, IN

- Performed in-depth data analysis on Regression test results to identify major bugs that significantly impacted feature performance. Identified recurring **bug patterns** related to specific platforms, features, or previous release testings, enabling targeted bug fixes and improving overall software quality.
- Designed and implemented scalable test automation frameworks (**Selenium, PyTest**) to streamline **NSP** 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.
- Developed userfriendly frontend interfaces using **React.js** and ensured seamless integration with backend services.
- Actively participated in Agile team activities, including **standups, planning sessions, and peer reviews**, to drive efficient project delivery and collaboration within the cross-functional teams.
- Skills: AWS, React, Python, Django, Angular, ES6.

Machine Learning Researcher

National Institute of Technology, Surathkal

May 2019 – June 2019

Mangalore, KA, IN

- Analyzed algorithms with keyboard pressure for precise user identification in keystroke dynamics. Explored pressure's behavior link for enhanced authentication accuracy. Achieved a 15% boost in user identification.

RELATED PROJECTS AND BACKGROUND WORKS

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.
- **Led a team of 3**, ensuring successful project integration with the existing automation framework.
- Recognized as **best TOP3 initiative** in the network security team.

McAfee Network Security Dashboard | React.js, Node.js, MongoDB

September 2020 – May 2022

- Designed and developed a web-based dashboard using React.js and Node.js to visualize and monitor network security events from the McAfee Network Security Platform.

Online Examination System | [link](#), PHP, MySQL, Apache HTTP, HTML/CSS, AWS

January 2023 – April 2023

- Implemented a secure **MySQL**-based online examination system using **PHP** for backend and **HTML/CSS** for frontend, hosted on **AWS EC2 instance**. Created **RBAC** role based access control.

CERTIFICATIONS AND ACCOMPLISHMENTS

- Google Data Analytics **Professional** Certificate - Google (2022)
- Received recognition and appreciation from **Martin Stecher**, McAfee Fellow and Head of Engineering, for making significant contributions to framework enhancements.