

SARAH R. MATOS

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SOFTWARE ENGINEER

Software Development – Cloud Computing – Artificial Intelligence & Machine Learning – Continuous Delivery – Solutions Delivery

I am a performance-driven engineer seeking opportunities to raise the bar for technology and enhance the quality of cloud-related solutions. I work well in team collaboration but also as lead to operationalize scalable infrastructure and deliver solutions at high velocity. Able to create valued applications from a systems-level perspective, using my 'growth mindset' view, holistic approach, and user-centeredness.

EDUCATION

BACHELOR OF SCIENCE (BSc.), COMPUTER ENGINEERING – University of Houston | Houston, TX

- **Senior Project: Team Leader, 5G Air Flight Solution** – coordinated 5-member team to develop 5G-based hardware solution to improve current security and efficiency over existing node-to-node communication between multiple devices.
- **Implemented 5G components** – radio-links, multi-node transmissions, multi-antenna transmissions, network layers, and Device-to-Device communications.
- **Dean's List (2019–2021) • Network Chair Member** – IEEE (2018–2021) • **Tech Talk Presenter: AI/ML** – Cougars Girl's Coding (2021)
- **Other Education: Associate of Science, Lone Star College (2014–2016) • Associates of Arts, Lone Star College (2014–2016)**

EXTRA CORE COMPETENCIES

Hardware/Software Engineer • Cloud Computing • Database Management System • Development • Cloud Infrastructure Deployment • User Experience • Technical Documentation/Consultant • Wireless Networks • Object-Oriented Programming • IT Operations • Project Management • Continuous Improvement • Root Cause Analysis • Regulatory Compliance • Cybersecurity • Testing • CI/CD • System Thinking • Build/Release Automation • Quality Assurance • Prototyping • Debugging • Product Development • Unix Operating System • Needs Analysis • Agile Methodology • Data Communication • Computer Networks • Telecommunication • Virtualization

TECHNICAL PROFICIENCY

Python, JSON, DBeaver SQL, VHDL, Bash, Linux, Unix, RedHat OpenShift, HTML, C++, VirtualBox, GitHub, Jira, Docker, Kubernetes, Postman, MatLAB, AutoCAD, Microsoft Office, Microsoft Azure, AWS, Multisim, FPGA, USRP, Raspberry Pi, Arduino, API Automation Testing

PROFESSIONAL EXPERIENCE

Software Engineer II – HEWLETT PACKARD ENTERPRISE | Houston, TX June 2020 –

- Responsible for code signing executables and reviewing python scripts to confirm the software author and guarantee that the code has not been altered or corrupted with any vulnerabilities since signed.
- Coded python scripts used pull data from MongoDB to confirm user authentication, private keys, tokens, and then automatically update any authorization privileges if needed with HPE's Code Signing service.

Technical Consultant

- Lead a small team to implement a Service Director feature for an AT&T project in their remote environment. Created Gantt charts on the expected schedule, tested the solution in local environment, collaborated with other colleagues to find better approaches and solutions.
- Created and lead stakeholder meetings to review their needs within a set schedule, improving team product knowledge, and introduce new features, and host troubleshooting sessions.

Networking Engineer I

- Worked in agile sprint cycles for orchestrating network functions and telecom solutions while boosting customer assurance and satisfaction.
- Coded ansible scripts for automatic deployment for product upgrades. Made it easier for dependancies listed in playbook to be pulled during each installation for every new release.
- Created technical documents for HPE telecom products and features; used by the Pre-Sales and DevOps team to present to each customer for smooth knowledge transfer during each installation or upgrade.

Research & Development Engineer

- Executed integration tests and API automation tests to establish e2e connection between each HPE telecom product and transmitted their package. Testing included: Jenkins and GitHub for pipeline creation, Docker and K8 for pod management, and AWS and RH for VM virtualization.
- Supported DevOps in the developing and deploying of VMs, testing orchestration solutions, and e2e capabilities in their environments.
- Performed regression testing in local and Verizon's cloud-based machines. To find errors and discover whether the changes during the updates have caused any new defects on current and new functions.

Quality & Solutions Engineer Intern

- Used DBeaver to pull data from SQL, Oracle, and Postgres databases to automate charts; used to find disaster recovery related issues for Intel processors, used Azure to improve data filtering performance to accurately propose solutions to the Pre-Sales team.
- Became company brand representative to the Cougars Girl's Coding Academy, a program used to educate the younger generation on technologies like AI and AI solutions; recognized by HPE's Women's Network.

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| Other Employment: PC Technician II | – LONE STAR COLLEGE | Houston, TX | Jan 2020 – March 2020 |
| Sales Floor Lead | – URBAN OUTFITTERS | Houston, TX | Aug 2018 – Jan 2020 |
| Store Key Holder | – I HEART BOBA | Houston, TX | Aug 2015 – Aug 2018 |

CERTIFICATIONS

Foundations of Project Management – COURSERA

Issued: February 2023

Defensive Programmer: Defensive Concepts – SKILLSOFT

Issued: June 2022