

Renato Adolfo Diaz

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🎓 EDUCATION

University of Central Florida, Computer Science, B.S. ✎ Aug 2021 – Dec 2024
NACME Corporate Scholar, SHPE UCF Chapter Member, LEARN Alumni | GPA: 3.4 Orlando, FL

🧰 PROFESSIONAL EXPERIENCE

Big Data SWE Research Intern, Illinois Institute of Technology ✎ May 2024 – Aug 2024
Chicago, IL

- Developed Vault 76, a multithreaded cryptographic hash tool in Rust, suitable for enhancing big data & blockchain proof-of-space (PoS) consensus algorithms.
- Engineered a caching layer to optimize data retrieval processes using an NVMe + HDD solution, reducing data access times for peak load operations by 33%.
- Collaborated with a team of 3 researchers at DataSys Lab to integrate advanced data processing algorithms that improved system efficiency and scalability.
- Executed 10+ benchmarking tests with Bash & Python scripts to document performance gains and pinpoint optimization opportunities in Chameleon.

Software Engineer Intern, Autodesk ✎ May 2023 – Aug 2023
San Francisco, CA

- Created an automated anomaly detection tool for the CLS team, enhancing the monitoring of over 400 critical licensing services using Java and AWS.
- Implemented 3 unsupervised machine learning detectors and monitors in Kibana to identify & alert on unusual activities every 10 minutes in licensing service logs, minimizing the need for manual oversight from other senior engineers.
- Designed and built Slack integrations for real-time anomaly notifications, improving the team's response times to potential disruptions by 100%.

Software Engineer Intern, Endpoint ✎ Jun 2022 – Sep 2022
El Segundo, CA

- Developed 6 functional unit and integration tests in Python to validate over 12 REST APIs utilized in the Automation Squad's SwaggerHub API platform.
- Contributed to enhancing the CI/CD pipeline by developing happy path test cases, significantly reducing manual testing time & allowing 20% of senior engineers on the Automation Squad to prioritize other advanced development tasks.
- Gained proficiency in Agile and Scrum methodologies, participating in daily standups and bi-weekly sprints & retros using Atlassian Jira for task management.
- Mastered version control practices with Git, managing code in the 10,000+ line project repo and collaborating effectively within a distributed team environment.

</> TECHNICAL SKILLS

Programming Languages

Python, Java, C/C++, JavaScript, HTML/CSS, Rust

Developer Tools

Git, Linux, VSCode, Ubuntu, Kibana, Microsoft 365, AWS, Unity, Jira, Azure, MongoDB, Chameleon Cloud

Frameworks

React, Node.js, Express.js, .NET, Spring, ROS, OpenCV, PyTorch, Django

Libraries

Pandas, NumPy, Matplotlib, Rayon, BLAKE3