

# Uriel Buitrago

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## Education

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Master of Science in **Software Engineering**, University of Texas at Austin, Expected May 2026

Bachelor of Science in **Mechanical Engineering**, University of Texas at Austin, 2020

**Computer Science** Certificate Program, University of Texas at Austin, 2020

## Experience

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PJR Corp – Remote | Jul 2022 – Present

PJR Corp is focused on providing innovative solutions to address real-world Cybersecurity and legacy software issues for the **Office of Naval Research (ONR)**

**Software Engineer** | Responsible for the Research, Development, and Integration of a **container security tool**.

- **Designed, developed, and maintained** a container security tool supporting **DevSecOps pipelines**, including software requirements, specifications, demos, and R&D initiatives.
- **Transitioned ONR-funded research into secure, cloud-native environments**, ensuring full Department of Defense (DoD) security compliance and integration with **classified systems**.
- Represented PJR Corp at **technical conferences** and defense innovation events, delivering live demonstrations and leading project briefings for stakeholders and government sponsors.
- **Front-End Lead** and full-stack developer for a Cloud Native Web Application hosted on AWS Gov Cloud

Def-Logix Inc. – San Antonio, Texas | Apr 2021 – Jul 2022

Def-Logix specializes in **Cyber Security R&D, Red Team, Blue Team**, and application development.

**Software Engineer in Test** | Responsible for verifying the quality of a **Windows exploitation and reconnaissance** tool, and delivering test reports.

- Configured and managed **Linux-based virtual environments** for Python development and testing, leveraging virtualization platforms such as **AWS EC2** and **VMware** to ensure scalable and isolated workflows.
- Developed, executed, and documented a comprehensive test strategy using **Zephyr Scale, Jira, and Confluence**, supporting evasion testing across seven **Personal Security Products (PSPs)**.
- Collaborated with the **U.S. Air Force Cyber Command** to validate mission requirements and demonstrate advanced cybersecurity capabilities in support of operational readiness.

## Research & Personal Projects

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DroneZero Robotics

- A novel human-gesture control framework for **UAVs** that combines supervised gesture classification with **large language model (LLM) reasoning** to enable real-time context-sensitive drone operation (<https://github.com/ubuitrago/DroneZero>)

ContainerShip

- A React rendered Web Application for optimizing Dockerfiles with reviews and recommendations from custom LLM tooling (<https://github.com/ubuitrago/ContainerShip>)

HostLink

- Developed a custom website and prototype Android TV app for a tech entrepreneur using React (<https://hostlink.ai>)

## Skills & Accomplishments

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**Languages:** Bash, Python, GoLang, C/C++ (class projects), Javascript

**Libraries & Frameworks:** Pytest, Sklearn, Glibc, React, Seccomp, FastAPI, Langroid, Langchain

**Tools:** Docker, eBPF, OpenShift, strace, Oracle Virtualbox

**Concepts:** Linux Kernel, Kubernetes, CI/CD, UI/UX, Machine Learning, MCP Servers, Retrieval-Augmented Generation

**Top Secret Government Clearance**

**Front-End Lead**