

Adrian Osorio

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EDUCATION

University of Central Florida

Bachelor of Science in Computer Science, Minor in Secure Computing and Networks

Orlando, FL

Aug 2023 - Dec 2027

EXPERIENCE

Systems Engineer Intern

Visa

May 2026 – Present

Denver, CO

- Deployed an **AI storage migration platform** for **100+ internal applications**, cutting downtime by **76%**.
- Standardized **Kubernetes** storage manifests and configs across **3** environments, reducing setup time by **34%**.
- Placed **3rd of 68 teams** at Visa Intern Hackathon with a **99.3% accurate** agentic commerce harness.

President

Knight Hacks

Jan 2025 – Present

Orlando, FL

- Led an **88-person** team for a **1,000+ member** organization, delivering **53 events** for **2,000+ attendees**.
- Grew **sponsorship to 20+ partners** and doubled budget to **\$70K**; launched **Blade**, an operations platform.
- Directed a **1,000+ attendee** nonprofit hackathon with **185+** projects, winning **UCF's Best Event Award**.

Software Engineer Intern

Bank of New York

Jan 2026 – April 2026

Lake Mary, FL

- Implemented **C#/.NET** APIs with **25+ metrics**, **8+ health checks**, and **40%** faster incident detection.
- Designed **GitLab/Docker CI/CD** pipelines that automated deployments and cut release cycles **60%**.
- Optimized **FastAPI** endpoints with **Redis** caching, cutting peak-load latency **12%** for AI services.

Software Engineer Intern

Bank of New York

May 2025 – Aug 2025

Lake Mary, FL

- Automated transaction reviews with a **Python** ML fraud analyst dashboard, preventing **\$3M/year** in fees.
- Built a Python MCP platform and registry for **12+** teams to spin up servers or one-click connect AI systems.
- Created an AI onboarding pipeline generating **UML** diagrams for repos, cutting ramp-up from **4 to 2 weeks**.

Undergraduate Research Assistant

University of Central Florida

Aug 2024 – Aug 2025

Orlando, FL

- Improved **BCI** accuracy from **62% to 85%** via **PyTorch** temporal CNN with **ICA** artifact removal and filtering.
- Optimized **PyTorch/CUDA** training pipelines with custom Huber loss, cutting model training time by **45%**.
- Developed a **Python** ETL pipeline converting **60,000+** sensor recordings to BIDS for brainwave research.

PROJECTS

GitHub Spec Kit | Python, Typer, Bash, PowerShell, YAML, Pytest

- Shipped **3+** open source pull requests to **Spec Kit CLI**, adding **5** catalog commands in **2** workflow categories.
- Hardened catalog config parsing for YAML edge cases, shipping **55** regression tests across a **1,792**-test suite.
- Resolved Spec Kit CLI branch failures from missing feature-metadata validation, backed by **60** regression tests.

Knight Hacks Monorepository | Next.js, React, TypeScript, SQLite, Tailwind CSS, tRPC, Drizzle ORM

- Architected a **Next.js/tRPC** platform serving **1,000+** members across registrations, check-ins, and operations.
- Engineered a **TypeScript** Discord bot that automated job alerts and member notifications for **5,000+** members.
- Implemented **tRPC** form APIs with **Drizzle ORM/SQLite**, processing **2,000+** survey and role submissions.

Ctrl-ARM | Python, C++, TypeScript, Google ADK, scikit-learn, TensorFlow, MyoWare 2.0, Pandas, React

- Won **1st of 245** at ShellHacks for Ctrl-ARM, an **EMG + IMU** ML system for computer control.
- Achieved **89.9% accuracy** and **sub-30ms** latency with a deep CNN classifier on **200Hz** EMG/IMU data.

Guido | Python, ROS2, Nav2, SLAM, LiDAR, NVIDIA Jetson, Arduino

- Won **Most Innovative Hack** out of **85 projects** at **HackUSF 2026** for a ROS2 autonomous wheelchair.
- Implemented **ROS2/Nav2** autonomy with **LiDAR SLAM**, frontier mapping, and **41** tests across **7** nav suites.

TECHNICAL SKILLS

Languages: Java, Python, C++, C#, TypeScript, JavaScript, SQL, Rust, HTML, CSS

Frameworks: React, Next.js, Node.js, Express, FastAPI, Flask, Spring Boot, SQLAlchemy, Angular

Libraries: PyTorch, scikit-learn, NumPy, OpenCV, TensorFlow, Pandas

Tools / Platforms: AWS, GCP, Prometheus, Docker, Kubernetes, Redis, PostgreSQL, Snowflake, Linux