Patrick Ijieh

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EDUCATION

Computer Science, B.S.   May 2025
GPA: 3.7/4.0
University of Central Florida (Orlando, FL)
Coursework: Data Structures, Algorithms, Web Applications, Database Applications, AI/ML,
                         Object-Oriented Programming, Systems Software, Operating Systems

EXPERIENCE

Amazon Propel Intern   Jun 2024 - Sept 2024

- Created a tool that tracked the millions of decisions that our service made every day.
- Leveraged multiple AWS services, including Lambda, S3, Athena, CloudWatch, IAM.
- Delivered extensive integration and unit testing with Jest and Mockito.

EVENTS

ShellHacks 2023

- Created and deployed Pedestria - a web application that shows the air quality and traffic along a chosen walking or biking path.
- Written in pure HTML/CSS and JavaScript, leveraging Google's Maps and Air Quality API platforms.

PROJECTS

Ladybug - Bug Localization   Aug 2024 - May 2025

- Enhanced bug localization accuracy through a GitHub bot utilizing bug report and source code embeddings augmented with user interface data (novel approach), achieving a 10% relative improvement in bug finding.
- Streamlined developers' bug replication process by integrating Android emulators with bug recording and replication technology, capturing user interface data to generate enriched bug reports.
- Advanced research merit by experimenting with 5+ frontier LLMs, 100+ hours of experimentation run-time, resulting in a 15% increase from the previous methodology.
- Awarded a $250 scholarship, Judge's choice award at Student Research Symposium, and college-wide showcase finalist.

Slime Lab   Aug 2024 - Dec 2024

- Collaborated with a team to deliver a Unity game that features AI enemies and elaborate puzzles.
- Awarded with the "Most Complete Game" class award.

VALORGG   May 2023 - Jul 2023

- Website that allows users to track their statistical data for the video game Valorant.
- Leverages the in-game API for the tracking of hundreds of different user accounts, with the recent game history of each.

TECHNICAL SKILLS

Java, JavaScript, TypeScript, Node.js, C, C++, C#, Python, Rust, Kotlin, PHP, React, Unity, MySQL, PostgreSQL, MongoDB, Git, Bash, Linux, AWS, Agile, Jira