

# YURIXANDER RICARDO

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## EDUCATION

JANUARY 2022 – EXPECTED APRIL 2024

**BACHELOR'S DEGREE (COMPUTER SCIENCE)**, FLORIDA ATLANTIC UNIVERSITY

- **GPA:** 3.956/4.0 cumulative.
- **Coursework:** Data Structures, Design and Analysis of Algorithms, Discrete Math, Foundations of Computer Science (C++), iOS App Development, and Full-Stack web development.
- **Extra-curricular:** Member of SHPE & Google Student Developer Club, founder of a Data Structure and Algorithm club, focusing on Leetcode problems and algorithm study consisting of 150+ members.
- **Volunteering:** Led a team of 7 volunteer student developers to work on a registration system for use in LACCEI, a non-profit with focus on conferences consisting of over 500+ attendees, over a 3 month period, which resulted in a more streamlined registration process for attendees.

## WORK EXPERIENCE

SEPTEMBER 2019 – MARCH 2020 (6 MONTHS)

**JUNIOR SOFTWARE ENGINEER**, DIGITAL RESOURCE 

- Optimized backend code in JavaScript with efficient data structures and algorithms, addition of lazy loading, and image size reduction to achieve up to a 70-80% decrease in page load times.
- Secured RESTful APIs by implementing prepared MySQLi statements using PHP and Laravel, protecting previously vulnerable SQL statement logic from potential SQL injection attacks.

AUGUST 2019 (1 MONTH)

**SOFTWARE ENGINEER INTERN**, DIGITAL RESOURCE 

- Leveraged JavaScript, CSS, and WordPress to integrate the Google Maps API, enhancing user experience and driving a 25% increase in user engagement through interactive map features.
- Reduced database query latency from ~350ms to 60ms (avg.) in a C# ASP.NET environment by optimizing MySQL and MongoDB queries.

## TECHNICAL SKILLS

- **Programming Languages:** Python, TypeScript, C++, Rust.
- **Databases:** SQL and MongoDB.
- **Version control:** Git, GitHub, Jira.
- **Tooling and Frameworks:** Redis, Docker, Express.js, LLVM.

## PERSONAL PROJECTS

SEPTEMBER 2019 – CURRENT (4 YEARS)

**PHI COMPILER**, VIEW WEBSITE 

- Complete systems programming language implementation in Rust, featuring functions, variables, objects, closures, control-flow statements, type inference, with a functional programming paradigm focus.
- Utilizes LLVM as a backend to generate optimized machine code by the usage of LLVM's optimization passes, resulting in performance comparable to Clang.

OCTOBER 2023 – CURRENT (1 MONTH)

**SCOUTEE**, VIEW WEBSITE 

- Cross-platform macOS' Spotlight-like application built with Electron.js, TypeScript and React.js, that allows users to search for files, applications, images, and more, with a focus on a seamless UI/UX, rapid query resolution, and efficiency.
- High-performance indexing service written in Rust, with a file system watcher to keep the index up-to-date and a custom fuzzy search algorithm.