

YURIXANDER RICARDO

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EDUCATION

JANUARY 2022 – EXPECTED APRIL 2024

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

- **GPA & Awards:** 3.956/4.0 cumulative. Achieved President's List and Dean's List honors.
- **Coursework:** Data Structures, Design and Analysis of Algorithms, Discrete Math, Foundations of Computer Science (C++), iOS App Development, Full-Stack Web Development, and Functional Programming w/ Scala.
- **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, resulting in a streamlined registration process for attendees.

WORK EXPERIENCE

APRIL 2019 – OCTOBER 2019 (7 MONTHS)

JUNIOR SOFTWARE ENGINEER, [DIGITAL RESOURCE](#)

- Optimized backend response in Node.js: caching via LRU cache, lazy loading, and lossy image compression to reduce page load times up to a 30-50%.
- Secured RESTful APIs by implementing prepared MySQLi statements using PHP and Laravel, protecting previously vulnerable SQL statement logic from potential SQL injection attacks.

MARCH 2019 (1 MONTH)

SOFTWARE ENGINEER INTERN, [DIGITAL RESOURCE](#)

- Used JavaScript, JQuery, and WordPress to integrate the Google Maps API to show local providers to visitors, driving a 25% increase in user engagement through interactive map features.
- Reduced MySQL database query latency from ~350ms to ~60ms (avg.) in a Go backend environment by: adding indexes, refining constraints, and selecting specific columns.

TECHNICAL SKILLS

- **Programming Languages:** JavaScript, TypeScript, Rust, C++, Python, Golang, PHP.
- **Tools & Platforms:** Node.js, Git, GitHub, GitHub Actions, Jira, Docker, Express.js, LLVM, Debugging (LLDB, breakpoints), Webflow, Figma, WordPress, Shopify.
- **Web Development:** HTML, CSS, SCSS/SASS, Laravel, SEO, React.js, Storybook.js, JSON, Web Sockets, REST APIs, Webpack, Vite.
- **Databases:** MySQL, PostgreSQL, MongoDB, SQLite, Redis.

PERSONAL PROJECTS

SEPTEMBER 2019 – PRESENT (4 YEARS, 10 MONTHS)

TAILS: FULLY-FLEDGED LLVM COMPILER, [VIEW GITHUB](#)

- Complete systems programming language implementation in Rust, featuring functions, variables, objects, closures, control-flow constructs, and powerful 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 – PRESENT (1 MONTH)

MIRAGE: MATRIX PROTOCOL WEB CLIENT, [VIEW GITHUB](#)

- Beautiful web client for the [Matrix protocol](#), built in TypeScript and React.js. It offers a modern, responsive and intuitive user interface, with support for real-time messaging.
- Integrated the [Matrix.org JS SDK](#) to provide enhanced security through end-to-end encryption for user communications in compliance with the Matrix protocol standards.