

# RALPH JUNIOR DESHOMMES

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## EDUCATION

### Florida Atlantic University

Boca Raton, Florida

B.S. in Computer Science; **GPA: 3.17/4.0**; Dean's List (May 2026)

Expected Graduation, May 2027

**Related Coursework:** Data Structures and Algorithm Analysis, Principles of Software Engineering, Computer Architecture, Communication Networks, Applied Cryptography and Security, Intro to Data Mining and Machine Learning

## SKILLS

**Languages:** Python, JavaScript, TypeScript, SQL, PHP, Java, C++, Swift, HTML/CSS

**Frameworks/Databases:** React, React Native, Node.js, Express, Laravel, MySQL, MongoDB

**Tools/Cloud:** Git, Docker, AWS, Azure, Google Cloud, Terraform, Datadog, Power Automate, Linux, Agile

## EXPERIENCE

### Software Engineer Intern | Givelify - Remote

May – Aug 2024, Returned May – Aug 2025

An online giving platform for churches and nonprofits

PHP, Laravel, Filament, Herd, Python, MySQL, Datadog, Power Automate, Git, CI/CD

- Improved fraud screening for church and nonprofit accounts by integrating an IP geolocation lookup into the **Laravel** admin panel, so reviewers can spot an IP location that does not match the account's address.
- Prototyped **Power Automate** onboarding and offboarding workflows with custom **Power Fx** logic beyond built-in actions, routing forms for IT permissions and HR setup, manager alerts, and late-step reminders, tracked in **Excel** and documented for handoff.
- Wrote a **Python** script that raises alerts on the **Datadog** dashboard when APM or RPM error rates exceed **5%**.

## PROJECTS

### Gridlock (ShellHacks 2026, team of 2) | Python, PDF parsing, geocoding, interactive map | Link

- Built Gridlock, a **Python** tool to help **5** utilities coordinate planned transmission projects by finding where they overlap, locating **224** of **252 (89%)** projects from PDF filings with **PyMuPDF** and **OpenStreetMap**.
- Condensed **457** project pairs into **57** ranked coordination opportunities by merging duplicate circuits and weighting distance over schedule, flagging **38** pairs close in both distance and time.
- Rejected false location matches, such as a same-named county **198** miles away, using state, line-span, and transmission-zone checks, and reproduced all **3** reference distances from the challenge's starter workbook.

### CaniCook | React Native (Expo), Node.js, Express, MySQL, JWT, Azure

- Developed a **JavaScript** recipe app for iOS and Android with **React Native**, backed by a **Node.js** REST API and a **13-table MySQL** schema, with the database and storage on **Azure**.
- Slashed recipe search latency by **99%** using a **TTL caching** layer with graceful degradation that serves repeat ingredient searches from cache instead of calling the external API.
- Engineered ingredient-normalized ranking across two recipe sources, plus recommendations that weight ratings above saved recipes.

### Leafy Full-Stack Social Media Platform | React, Node, Express, MySQL, Google Cloud

- Created a **JavaScript** gardening social platform with posts, threaded multi-level comments, and offset pagination for fast first loads, tested with **100+** sample posts.
- Trimmed database round-trips per feed load by **75%** with optimized **JOINS** and correlated **subqueries**.
- Kept the API stateless by storing media in **Google Cloud Storage**, so the server can scale horizontally.

### Silent Picture | JavaScript, Web Speech API, MediaPipe, Canvas 2D, WebRTC | Link

- Designed a vanilla **JavaScript** webcam app with a live silent-film effect (grain, flicker, scratches) and no backend.
- Integrated **MediaPipe** FaceLandmarker to track **12** facial landmarks live, anchoring **3** toggleable face filters on **Canvas 2D**.
- Transcribed live speech with the **Web Speech API** into animated silent-film title cards timed by transcript length, with a runtime fallback to camera, filters, and music for browsers without speech support.

## ACTIVITIES AND LEADERSHIP

### ShellHacks, Team Lead

Miami, Florida

- Led teams at ShellHacks 2025 and 2026, FIU's **48-hour** hackathon, building a stock dividend app and the Gridlock map.

### NSBE

Boca Raton, Florida

- Member of the National Society of Black Engineers, attending career-readiness and technical skill-building events.