

Skyler Hall

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Education

Florida International University | Miami, FL

Dec 2026

- B.S in Computer Science | A.A. in General Studies
- Associations: INIT | MLT | Codepath | Color Stack | Code Culture | Google Tech Exchange

Skills

- Programming Languages: Java | Python | C++ | HTML/CSS | JavaScript | TypeScript | Express | Tailwind | Swift
- Technologies: React.js | Node.js | Next.js | Firebase | SQL | Appian | AngularJS | Flask | Git

Experience

Software Engineer Intern | Vanguard – Malvern, PA

May 2025 – August 2025

- Developed an end-to-end Application Processor platform using Appian, adopted by more than 50 internal teams to fully transition request intake and tracking processes online.
- Created standardized submission flows and a centralized status dashboard improving clarity across teams.

Teaching Assistant | Florida International University – Miami, FL

Aug 2024 – Dec 2024

- Supported instruction of Java and object-oriented programming concepts for a Programming 2 course of 56 students.
- Provided guided debugging and code review during weekly office hours to strengthen student problem solving confidence.

Teacher | INITxIGNITE – Miami, FL

Aug 2024 – Dec 2024

- Taught JavaScript and Python using project-based lessons, raising class participation to more than 25 students.

Projects

Soliss | Swift, C++, Arduino, Firebase, UV Sensor Module, OpenAI API

Sep 2025

- Led a team of 3 at PennApps to develop a wearable UV exposure system with live tracking using Firebase.
- Built and integrated an API request system in Swift that generated AI-powered skin care recommendations and created a severity scoring scale tailored to user demographics and conditions.

Shellhacks Bot | Python, Discord.py, Discord API, Notion API

Aug 2025 – Sep 2025

- Developed cogs for INIT Discord bot using Python and Discord.py, leveraging the Notion API to automatically query a knowledge base and deliver instant answers to INIT Server.
- Built a closed-loop Discord support system with an interactive UI, to connect students to the correct support member.

recyclepediamdc.com | React, Firebase, Tailwind, Next.js

Sep 2024 – Dec 2024

- Led team of 12 in collaboration with Miami-Dade County to redevelop the Recyclepedia website and create iOS/Android apps using React, React Native, Next.js, Firebase, and Tailwind CSS.
- Led web development projects, re-creating site structure and features resulting in **200** new active monthly users.

Leadership & Professional Development

Student | Google Tech Exchange

Jan 2025 – April 2025

- Selected for a competitive semester-long program, taking classes led by Google engineers to learn full-stack development fundamentals and industry best practices through project base learning.

Web Dev Explore Technical Lead | INIT

Jan 2025 – Present

- Lead in-person workshops for 10,000+ club members, covering web development best practices, modern frameworks, and full project lifecycle training while mentoring participants through hands-on projects.

Career Prep Fellow | Management Leadership for Tomorrow

Aug 2023 – Present

- Accepted into a selective 18-month professional development program for high-achieving diverse talent.
- Complete programming studies and assignments to grow leadership and technical skills.

Student | Capital One Tech Mini Mester

July 2024 – Aug 2024

- Completed an immersive technical training program with Capital One, strengthening teamwork and mentorship skills while gaining foundational expertise in Node.js, JavaScript, and CLI tools.