

# Fernando Ailon

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## EDUCATION

### University of Central Florida

January 2023 - June 2026

*Bachelor of Science in Computer Science*

### Indian River State College

May 2019 - December 2022

*Associate of Arts*

### Relevant Coursework:

Data Structures & Algorithms I & II, Object-Oriented Programming (OOP), Calculus I, II, & III, Web Development, Matrix & Linear Algebra

## SKILLS

**Programming Languages:** C, Java, JavaScript, HTML/CSS, C++, PHP, Python, C#

**Tools / Libraries:** VS Code, IntelliJ IDEA, Git/GitHub, Postman, Swagger Hub, MySQL, Android Studio, Wireshark, Selenium, BeautifulSoup, Unity, jQuery

**Frameworks:** Bootstrap, Node.js, Express.js

## PROJECTS

### Overcharged | *Unity, C#, DOTween, Git, MongoDB*

October 2024

- **Achieved 3rd place at KnightHacks 2024 hackathon** for the Nextera Energy Efficiency challenge, showcasing a solution for improving household energy efficiency.
- Spearheaded the design and implementation of dynamic, user-friendly main menu and options menu UI.
- Leveraged DOTween to create seamless, visually appealing scene transitions for an immersive user experience.
- Engineered interactive buttons with responsive navigation, streamlining menu accessibility.
- Integrated sound and music systems, enhancing the game's auditory experience and overall engagement.

### AfterWords | *MongoDB, Express.js, TypeScript, React, Node.js*

October 2024 - November 2024

- Developed backend APIs using Node.js and Express to manage user authentication, registration, and account management, supporting CRUD operations.
- Built features for user search and messaging, allowing users to search by partial name or email matching and send messages to selected users.
- Implemented bcrypt for secure password hashing and comparison, enhancing data security and user privacy.
- Designed a flexible check-in feature, enabling users to customize their check-in frequency based on their preferred time frames, with endpoints ensuring accuracy and user convenience.

### Hacktracker (ShellHacks 2024) | *TypeScript, React, Prisma, TRPC, Next.js*

September 2024

- Worked on Prisma integration to support scalable backend solutions and improved data handling.
- Performed web scraping using Python and Selenium to gather real-time hackathon data from the MLH website, ensuring up-to-date information for the application.
- Stored scraped data in JSON format, enabling seamless integration with other parts of the application.
- Implemented dynamic content handling and advanced error management during the scraping process to ensure reliability and resilience under varying conditions.

## EXTRACURRICULAR ACTIVITIES

### KnightHacks Mentorship Program | *Mentee*

August 2024 - November 2024

Actively learning about resume building, the tech industry, and professional development through guidance from experienced upperclassmen.

### Soldiers Angels | *Volunteer*

September 2023

Volunteered at a Thanksgiving food drive for veterans in Orlando, assisting with traffic coordination, food sorting, and distribution of supplies.