Anthony Banuelos

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Education

University of Central Florida Orlando, FL

Bachelor of Science in Computer Science *Expected May 2028*

- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Security in Computing, Programming in C, Discrete Structures, Computer Logic and Organization (in progress)

Projects

Hide Lenny – Knight Hacks IX | *Python, FastAPI* | GitHub

- Implemented **FastAPI** backend on a **four-person** team for a user vs AI hide-and-seek game.
- Tested image-upload and game-round **REST API** endpoints using **Swagger UI**.
- Troubleshot **local startup and Git issues** while integrating the team's backend.

Personal Portfolio Website (In Progress) | *HTML, CSS, JavaScript, React*

- Developing a personal portfolio showcasing programming projects, professional experience, and personal interests.
- Created responsive layouts using **CSS Grid**, **Flexbox**, and media queries for desktop and mobile screens.
- Added **JavaScript** interactions including project filtering, mobile navigation, and active-section highlighting.

Theme Park Attraction Queue Simulator | *Java*

- Built an attraction queue simulator supporting **3 guest types**: Regular, Fast Pass, and VIP.
- Modeled guests and attractions using **inheritance**, **polymorphism**, and composition.
- Implemented ride cycles, **searching, sorting**, file I/O, and reports using Java Collections.

Hill Cipher Encryption | *Java*

- Implemented **Hill cipher encryption** using matrix multiplication and **modular arithmetic**.
- Normalized plaintext, mapped characters to numeric values, and generated formatted ciphertext.
- Validated encryption results across **multiple test cases** using user-provided key matrices.

Customer Loyalty Points Management System | *C*

- Built a **binary search tree (BST)** to manage customer loyalty points alphabetically.
- Implemented **recursive insertion, search, deletion**, height calculation, and balance checks.
- Handled **3 deletion cases** using pointers and dynamic tree restructuring.

Store Locator and Hybrid Sorting System | *C*

- Implemented **hybrid merge/insertion sort** with a configurable subarray threshold.
- Ranked store coordinates by distance using coordinate-based tie-breaking rules.
- Applied **binary search** to locate queried stores and report their sorted ranks.

Experience

Kickstart Mentorship Program Mentee September 2026 to Present

Knight Hacks, University of Central Florida *Orlando, FL*

- Selected for the Kickstart mentorship program providing 1:1 technical and early-career guidance.
- Participate in software development tool workshops and mentorship focused on technical and professional skills.

Front of House Cast Member June 2023 to Present

The Walt Disney Company *Lake Buena Vista, FL*

- Manage guest queues and seating at a Walt Disney World restaurant serving up to **430 reservations** daily.
- Resolve guest concerns with empathy and efficiency during high-volume, high-pressure operations.
- Earned **10+ formal leadership recognitions** for guest service, team collaboration, and work ethic.

Skills

Languages: Java, C, Python, HTML/CSS, JavaScript, React
Developer Tools: Git, GitHub, Visual Studio Code, OpenAI Codex, Linux/Unix