

AMILCAR PENA

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EDUCATION

Florida International University | B.S. Computer Science | Miami, FL

Expected: May 2026

- **Associations:** Honors College, INIT FIU, CodePath, Google Tech Exchange
- **Completed Coursework:** Programming in Java I/II, Data Structures, Computer Architecture, Artificial Intelligence, Systems Programming, Calculus I/II

Google | Tech Exchange Program | Mountain View, CA

January 2024 – April 2024

- Chosen as one of 180 students to participate in Google's "Tech Exchange", a program designed to give access to cutting edge industry courses taught by Google engineers.
- **Curriculum:** Applied Data Structures & Algorithms, Software Development Studio, Careers in Tech
- Learned applied computer science skills in data structures, technical interviews, cloud computing, software testing and deployment, and project management.

EXPERIENCE

Software Engineering Fellow

July 2024 - Present

Headstarter AI; Remote

- Develop multiple AI-driven applications including a Pantry Tracker, AI Customer Support system, AI Flashcards integrated with Stripe, and AI Rate My Professor.
- Collaborate on team projects to engineer high-quality AI solutions while honing skills in OpenAI technologies, AWS, Stripe API, and robust UI development.
- Execute a final project for a startup's current backlog, meeting business requirements and delivering a presentation to engineers.

Technical Interview Prep (TIP) Tech Fellow

May 2024 - Present

CodePath; Remote

- Mentor students in understanding technical interview questions and guide them in planning and implementing Python-based solutions.
- Lead breakout sessions to foster a collaborative learning environment, ensuring active participation and retention of technical concepts.
- Facilitate in-depth discussions on algorithm design and data structures to help students develop and refine their problem-solving skills.

Support Intensive Course Assistant (SICA)

February 2024 - Present

Florida International University; Miami, FL

- Evaluate and grade programming assignments for a Data Structures (COP3530) course of 50 students.
- Demonstrate expertise in data structures and algorithms by thoroughly reviewing Java programs to identify bugs, logic errors, and implementation issues.
- Provide detailed feedback to students, helping them understand and correct their mistakes in building and applying data structures.

PROJECTS

ClassCorder | Python, Streamlit, BigQuery, Gemini AI, Vertex AI, Docker, Google Cloud

Abril 2024

- Worked with a team of 2 students under Google's Tech Exchange program to build ClassCorder, an AI-driven educational tool that transforms lecture recordings into interactive transcripts that enhance students' learning.
- Engineered and led the chat feature in ClassCorder, offering a personalized chatbot powered by Gemini's 1.5 Pro and Pro Vision models that can answer any questions related to the content of a lecture.
- Employed Cloud Build and Docker to containerize the application, ensuring efficient deployment and scalability on Cloud Run.

TECHNICAL SKILLS

- **Languages:** Python, Java, C, SQL
- **Tools:** Git, Google Cloud, AWS, Jupyter Notebook