

Miguel Eduardo Perez

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EDUCATION

University of Memphis

Bachelor of Science in Computer Science and Mathematical Sciences

Memphis, TN

Expected May 2025

- GPA: 4.0 Major, 3.78 Cumulative

Language Skills

- Fluent: English & Spanish
- Proficient: German

EXPERIENCE

Undergraduate Teacher's Assistant

2022 – Present

University of Memphis

Memphis, TN

- Review & assess code submissions from over 40 students, providing constructive feedback to enhance their programming skills.
- Grade classwork assignments, evaluating code quality & overall understanding of course concepts.
- Foster a positive & inclusive learning environment by offering support to students with varying levels of programming experience.

Senior Assistant Manager

2019 – 2022

Perez Masonry, LLC

Memphis, TN

- Managed a team of 6 on various construction sites, overseeing daily operations & ensuring efficient project execution.
- Optimized resource utilization to meet project timelines & budgetary constraints.
- Provided hands-on support on-site as needed, contributing to the timely completion of tasks.
- Collaborated with project managers to plan & ensure adherence to safety protocols & quality standards.
- Fostered a collaborative work environment, promoting teamwork & communication to enhance project performance.

PROJECTS

Chat Room | *Python, PyCharm*

2023

- Built a TCP-based chat room application in Python, implementing a client/server architecture.
- Designed & incorporated a server component capable of managing multiple client socket connections concurrently.
- Enabled clients to send messages to specific recipients using unique, server-maintained IDs, facilitating private messaging within the chat room.
- Partnered with a team to test & refine the chat room, resolving any bugs or issues for a seamless user experience.

Discord Bot | *Discord API, Python, Replit*

2022

- Created a bot using Python & event-based programming, utilizing Discord's API for server integration.
- Introduced accessible, interactive game features, providing users with entertaining experiences.
- Developed server moderation functionalities to enhance the community experience by enforcing rules & ensuring a positive environment.
- Utilized Replit for deployment, ensuring the bot remains consistently active & available to users.

TECHNICAL SKILLS

Languages: Python, C, C++, SQL

Developer Tools: VS Code, PyCharm, Replit, Sublime Text

Libraries: pandas, NumPy

Relevant Coursework: Design/Analysis of Algorithms, Network/Info Assurance, Database Process & Design, Discrete Mathematics, OOP & Data Structures, Intro to Programming, Probability/Statistics, Linear Algebra, Differential Equations