Jesus A. Perez

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Software Engineer

Skilled SE professional with experience developing, testing, and improving computer systems and data. Strong at troubleshooting, detail-oriented, and effective in team collaboration. Excellent communication skills and quick to learn new technologies and software.

Core Competencies

- Bi-lingual (English & Spanish)
- Data Structures & Algorithms
- Data Analysis
- Contemporary Programming
- Cloud Platform Support
- Cloud Computing
- UI/UX Design
- Software Reverse Engineering
- Systems Integration
- Cross-Functional Collaboration
- Network Administration
- Records Management

EDUCATION

Master of Science in Computer Science

University of Texas at San Antonio – San Antonio, TX, 2024
3.59 GPA

Bachelor of Science in Computer Engineering Technology

Minor: Org. Leadership & Supervision
University of Houston – Houston, TX, 2017

TECHNICAL PROFICIENCIES

- **Programming Languages:** C, C++, HTML, Java, Python, SQL
- **Certifications:** CompTIA Network+, IT Operations Specialist, A+ Certified
- **Operating Systems:** Windows, Mac OS, Linux, Windows Server OS
- **Applications:** Microsoft Office Suite, GitHub, IDA Pro, Visual Studio, AutoCAD, WordPress, Adobe Creative Cloud Suite, and various IDEs

EXPERIENCE HIGHLIGHTS

Graduate Teaching Assistant

UTSA CS Dept, San Antonio, Texas   August 2021 – December 2023

Provided diverse services as a course assistant, which will normally include grading student papers and examinations, meeting with students to discuss assignments and provide constructive feedback on assignments and projects to over 70 students each semester.

Microsystems Analyst II

University of Houston – CLASS, Houston, TX   Jul 2017 – Mar 2020 & May 2023 - Aug 2023

Orchestrated detailed analysis and evaluation of the department's software and hardware requirements to make appropriate and cost-effective recommendations for the procurement of new technologies. Performed network administration and support functions for the College.

Instructional Designer Graduate Assistant

UTSA PREP, San Antonio, TX   December 2020 – September 2021

Created high-quality meaningful online learning experience for middle and high school students that promoted advanced studies and careers in STEM fields. Supported the design and production of online lessons and resources. Assisted with the creation of interactive, web-based content applying learning theory.

◆ **Inclusive UI E-Commerce Website:** Responsive website built using Bootstrap, JS, and Docker

◆ **Reverse Engineered Decryption Program:** Program created to decrypt files by reverse engineering encryption algorithms, using IDA Pro, Visual Studio and HexDump.

◆ **PREP Virtual Instructional Model**: Worked within an Instructional design team to create a fully online curriculum based on a long running in-person academic program.

◆ **Traffic Simulation Java Program:** Created an object-oriented Java program that uses graphing algorithms and data structures to simulates traffic.

◆ **Blood Clot Detection System**: Portable device that physicians could use to screen for blood clot conditions, using sensors, a microcontroller and signal waveform analysis.

◆ **AI House Price Prediction Python Program:** Program that processed public housing dataset and created a model for predicting future housing prices.

◆ **Wi-Fi Controlled Irrigating System**: Irrigating system controlled by Wi-Fi enabled microcontroller.

◆ **JPMorgan Chase & Co. SE Virtual Experience:** Certificate of completion of Forage Software Engineering virtual experience.

CMD-IT/ACM Richard Tapia Computing Conference Scholarship; Award Recipient, 2022
UH Core Renovations- Roy G. Cullen Building Committee; *IT Representative*, 2019
Communities in Schools- Houston Area; *Program Volunteer*, 2019
Institute of Electrical and Electronics Engineers; *Chair*, 2017
College of Technology Dean Search Committee; *Student Representative*, 2017