Oscar Jasso

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EDUCATION

The University of Houston 2024 - Present
B.S. in Computer Science | GPA: 3.1 / 4.0 Expected Graduation June 2026
Relevant Courses: Data Structures, Database Systems, Operating Systems, Computer Vision, Artificial Intelligence, Digital Image Processing

TECHNICAL SKILLS

Programming Languages: C++, Python, JavaScript, SQL, HTML/CSS, Pascal, LaTeX, R, Arduino
Frameworks/Libraries: React, Node.js, OpenCV
Tools/Platforms: MySQL, Microsoft Azure, GitHub, GitLab, Docker, Terraform, Ansible, Bash, PowerShell, HashiCorp Vault, Hyper-V
Concepts: Digital Image Processing (color filtering/sharpening), Multithreading (pthreads, semaphores)

PROJECTS

Library Database Web Application | *MySQL, React, Node.js, JSON, HTML/CSS*
- Built a full-stack library management site (React UI, Node.js API, MySQL) with CRUD workflows and reporting queries.

Deep Learning Fare Forecasting | *CNN, RNN, LSTM | Python*
- Trained and compared AI models for quarter-based airline fare predictions; evaluated using MAE/MSE and analyzed error modes.

Micro Mouse | *C++, Arduino*
- Integrated infrared sensors for wall detection and distance measurement enabling obstacle avoidance.
- Constructed a motor driver circuit using MOSFETs and capacitors for precise control of stepper motors.

EXPERIENCE

NORTHROP GRUMMAN ELECTRONICS INTERN Melbourne, FL May 2025 – Aug 2025
- Built Apache ActiveMQ service to enhance message broker capabilities for distributed applications to improve scalability and resilience.
- Created Terraform modules integrating HashiCorp Vault for secure credential distribution across infrastructure.

HVAC QUALITY TECHNICIAN Waller, Tx Sep 2020– Feb 2022

- Inspected electric wiring for damages and tested for critical system failures
- Repaired and reported faulty electrical systems.

MOBILE COMPUTING MANAGER MWHS-3, San Diego, CA Feb 2020 – Aug 2020
- Lead the implementation and troubleshooting of 150 Government iPhones to all VIPs.
- Increased productivity by 35% by securing government devices to utilize work emails and webservices.
- Managed AT&T contract and services for 400 mobile devices

LEADERSHIP

USMC Corporal's Course
- Conducted formal and informal counseling; set performance expectations, documented progress, and built individual development plans for junior Marines.
- Led and mentored a team of 4 Marines, improving readiness and cohesion through clear goals, coaching, and accountability.