JUSTIN NACIONALES

Houston, TX ▪ (713) 459-0890 ▪ nacionalesjustin@gmail.com ▪ www.linkedin.com/in/justinnacionales
https://github.com/jrishere

EDUCATION

College of Natural Sciences and Mathematics, University of Houston **Expected Graduation: December 2025**
Bachelor of Science in Computer Science

SKILLS & CERTIFICATIONS

Languages: Python, C, C++, JavaScript, MySQL, Microsoft Office (Word, PowerPoint, Excel)
Development Tools: Git, Google Cloud, Linux

EXPERIENCE

Tech Daddy | *Software Development Intern* | *Houston, Texas* **September 2024 – Present**

- Built and optimized custom PCs, ensuring seamless integration of hardware components in a team setting
- Gained hands-on experience coding in C++ and JavaScript, contributing to software improvement projects
- Diagnosed and resolved hardware issues while assisting with system upgrades to enhance functionality

Amazon Warehouse | *Warehouse Operations* | *Katy, Texas* **May 2021 – July 2021**

- Organized 10,000 + stock items in an orderly, efficient, and accessible manner in warehouses and supply rooms
- Cleaned and maintained supplies, tools, equipment, and storage areas in order to ensure compliance with safety regulations
- Prepared products, supplies, equipment, or other items for use by adjusting, repairing, or assembling them as necessary

LEADERSHIP & AFFILIATIONS

Society of Asian Scientists and Engineers (SASE) | *Athletics Intern* | *Houston, Texas* **August 2023 – December 2023**

- Coordinated logistics for diverse sporting events, ensuring smooth operations for 10+ annual events
- Enhanced athlete experiences by facilitating logistics and communication, resulting in improved satisfaction ratings
- Fostered partnerships with local organizations and vendors to enhance event experiences, resulting in increased participant satisfaction and community engagement

PROJECTS

Document Indexing and Search Engine | C++

- Developed a C++ application for basic document indexing and search functionality, enabling users to perform queries
- Implemented document indexing with hash functions for efficient search operations, supporting logical operators
- Designed output formatting to display search results and document indices, addressing hash collisions and providing a basic cleaning function for wordsc

Student Management System | C++

- Developed a C++ program to manage students, teachers, classes, attendance, and grades within an educational setting
- Implemented an interactive menu-driven interface for easy navigation and memory allocation for flexible data management
- Provided features for editing student and teacher details, marking attendance, generating attendance reports, calculating grades, and submitting assignments

Resource Management and Process Scheduling | C++ Repository

- Implemented resource management algorithms including Banker's algorithm and process scheduling techniques such as Earliest Deadline First (EDF) and Least Laxity First (LLF) in C++
- Developed a simulation environment for resource requests, usage, and releases in a multi-process system, providing insights into resource availability, allocation, and process needs
- Utilized semaphores for synchronization and demonstrated the functionalities through sample input files, ensuring safe resource allocation and efficient process execution

Virtual Memory Management | C++

- Developed a program to simulate diverse page replacement algorithms for virtual memory management
- Developed and implemented a program to simulate diverse page replacement algorithms, including LIFO, MRU, LFU, and OPT, for virtual memory management