Daniel Gonzalez

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EDUCATION

The University of Texas at Austin, Austin, TX August 2023

Bachelor of Science in Computer Science (with Highest Honors)

Relevant Coursework: Neural Networks, Concurrency, Object Oriented Programming, Software Engineering, IOS / Swift Mobile Computing, Programming for Performance, Operating systems, Computer Architecture, Data Structures

TECHNICAL SKILLS

Programming Languages: Python, C, C++, HTML, CSS, Javascript, Swift, Java, x86 assembly, Golang, and SQL

IDEs: Visual Studio Code, Eclipse, Xcode **Frontend Frameworks/Libraries:** ReactJS, SwiftUI **Backend Frameworks:** Flask, Node.js **Cloud Platforms:** Google Cloud Platform, Firebase **Version Control:** Github **Package Managers:** npm, Cocoapods, Homebrew **Operating Systems:** Linux, Windows, Mac **Other Tools/Software:** Matlab

Spoken Languages: Spanish (Fluent)

EXPERIENCE

Lone Star Dev, Austin, TX December 2023 - Present

Full Stack Software Engineer

- **Increased business inquiries by 25%** and acquired four new clients in three months by developing a user-friendly website for Rising Stars Bilingual Learning Center using ReactJS, HTML, JavaScript, and CSS, enhancing their online presence with nearly 2000 impressions and a 14% TCR.
- **Enhanced website functionality and trust** by building a robust backend with Flask, Python, and NodeJS, integrating APIs for map data and Yelp reviews to establish Rising Stars as a reliable and trustworthy business, resulting in positive client feedback.
- **Ensured data privacy and security** by creating custom APIs for secure mail handling using SMTP and SSL, crucial for protecting sensitive information in children's application forms.
- **Optimized performance and scalability** by deploying the website on Google Cloud Platform, leveraging Cloud Run, Cloud Functions, and Cloud Tasks, enabling it to handle unlimited simultaneous users and ensuring smooth operations worldwide.

Katana Graph, Austin, TX January 2022 - February 2022

Software Engineer Intern

- **Enhanced data processing efficiency by 30%** by developing and optimizing algorithms for Katana's core analytics tools, which improved overall system performance.
- **Collaborated** with a team of Software Engineers to generate data using Katanas cutting-edge tools, enabling the debugging team to identify and resolve complex technical issues.

PROJECTS

Password Manager App | iOS, Swift, Cocoapods, XCode, Firebase, UI Design, GitHub

Led 5-member team in creating a password management iOS app. Utilized Firebase for security and GitHub for storage.

- Established strong Firebase login, enabled cloud storage of encrypted data, cross-device compatibility and led UI design.

CLI Messaging App | Python, Socket Programming, Network Protocols, CLI, Optimization

Developed a CLI messaging app for real-time communication.

- Implemented POP protocol for messaging over UDP.
- Designed server-client architecture with unique IDs. Optimized message handling for stability under high traffic.

QEMU OS | C, C++, OS design, Concurrency, Memory management, File systems, Graphics

Enhanced a Linux-derived OS with essential features as part of an OS class project.

- Implemented and integrated advanced operating system features, including process synchronization, memory management, concurrency, system interrupts, scheduling, file systems, and multi thread support.
- Collaborated on graphics integration using QEMU with RGB colors, VGA, VESA modes, and VBE, enhancing visual output.

FashionClassifier Net | Python, Neural Nets, Pytorch

Developed a PyTorch-based neural network for clothing classification using the fashionMNIST dataset.

- Processed 28x28 pixel images of diverse clothing articles and trained the model for accurate categorization.
- Created training, validation, and testing sets, designed model architecture, criterion selection, optimizer utilization, and overfitting prevention techniques.