Devin Stanley

(619) 913-8696 | devin.stanleyyy@gmail.com | San Diego, CA
linkedin.com/in/devin-stanley1 | devinstanley.vercel.app

Summary

Software developer with a strong foundation in C#/.NET applications, embedded systems integration, and data analysis. Proven ability to own full product cycles—from architecture to deployment—across scientific, firmware, and DAQ systems. Driven and proactive, consistently pursuing opportunities to improve workflows, adopt new tools, and deliver measurable results.

Professional Experience

Software Developer, *Alphane Labs*

Oct 2022 - Present

- Spearheaded development of a production-grade **WPF-based C#/.NET** application; independently managing requirements, testing, bug tracking, and user feedback to deliver a team-level product in **under 3 months**.
- Architected an **Azure-based database system** and developed a WPF-based C#/.NET tool for seamless data access and sample tracking, consolidated company data, authored SOPs, and led company-wide training.
- Increased computational efficiency of Python data-analysis modules including improved time-series alignment **(2x faster)** and optimized nonlinear-system solver **(-20% runtime)**.
- Automated build and deployment pipeline using **Docker images and GitHub Actions workflows** for automatic software and embedded firmware compilation, ensuring consistent builds and one-step deployment per push.
- Led the migration from LabVIEW to a WPF-based C#/.NET DAQ platform, adding equilibration detection and **reducing data acquisition time by 30%**.

Supplemental Instruction Leader - Linear Algebra, *SDSU*

Dec 2020 - Dec 2021

- Led and planned **two 1-hour weekly sessions**, designing supplemental curriculum that mirrored course content to reinforce student understanding.
- Collaborated with faculty to identify common student challenges and tailored exercises, improving student comprehension; participants averaged **10% higher course grades** compared to peers.

Education

Master of Science, Computational Science w/ Emphasis in Data Science, *SDSU* - GPA: 3.68

- **Thesis:** Parallelized Compressed-Sensing Based Kirchhoff Prestack Migration
  - Explored approaches to seismic data migration using compressed sensing, improving the quality of subsurface images compared to traditional methods.
  - Implemented parallel computing solutions using CUDA and OpenMP, benchmarking performance across methods.

Bachelor of Science, Applied Mathematics w/ Emphasis in Computational Science, *SDSU* - GPA: 3.83

Awards

- **Summa Cum Laude, *SDSU*.**
- **Merit Scholarship Recipient, *SDSU*.**
- **ASSICS Scholarship Recipient, *SDSU*.**

Skills

Programming Languages: Python, C#, C/C++, Mathematica, MATLAB

Frameworks and Tools: WPF, .NET, Jupyter, Git, Docker, OpenMP, Azure, WinForms, LabVIEW

Spoken Languages: English, Spanish