Justin Soberano-Borbonio

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EDUCATION

Iowa State University — **Dec. 2025**
Bachelor's of Science in *Software Engineering* — **GPA: 3.60**

EXPERIENCE

NASA - National Aeronautics and Space Administration — **Houston, Texas**
Software Engineering Intern — Jun. 2023 — Aug. 2023

- Specialized in **Python** for the development of a telemetry data collection system tailored for spacesuits, facilitating the real-time monitoring and analysis of environmental and biometric data.
- Employed cutting-edge technologies and adhered to best practices in software development to enhance the data collection system, **achieving a 60% improvement** in data processing efficiency and reliability
- Collaborated extensively with internal branches to ensure the telemetry data collection system met rigorous standards and incorporated feedback effectively, resulting in a **100% satisfaction rate** among branch leaders.
- Proactively undertook self-paced learning initiatives in Python to bridge knowledge gaps, rapidly mastering key techniques, **directly contributing to the project's timely execution and success**.

NASA - National Aeronautics and Space Administration — **Houston, Texas**
Software Engineering Intern — Aug. 2022 — Dec. 2022

- Specialized in **C** and **C++** to develop, test, and optimize software for digital twin habitats, **achieving improvements in system performance and reliability** through code optimization and thorough debugging.
- Collaborated closely with engineers and scientists to integrate real-time sensory data into habitat simulations, **improving the predictive capabilities of the digital twins by 40%.**
- Implemented logging and performance monitoring systems in the digital twin software, providing critical insights that **led to a 20% overall performance increase and a 35% reduction in downtime.**
- Cultivated a deep understanding of C/C++ memory management through dedicated self-study and practical application, **resulting in a 40% reduction in memory usage across the digital twin software.**

INVOLVEMENT

Iowa State University, Software Engineering Program — **Ames, Iowa**
Peer Mentor for Software Engineering Students — Aug. 2023 — Present

- **Propelled the academic and professional growth of first-year software engineering students** by providing guidance, resources, and support in understanding fundamental concepts and adapting to college.
- **Organized and led interactive workshops and study sessions**, fostering a collaborative learning atmosphere, and contributed to the development of a supportive community among peers in the program.

Iowa State University, Department of Computer Science — **Ames, Iowa**
Undergraduate Teaching Assistant — Jan. 2023 — May 2023

- Demonstrated comprehensive understanding of **Java programming fundamentals and advanced concepts** while assisting students in debugging, code optimization, and development.
- Facilitated weekly lab sessions, **conducted one-on-one consultations and provided constructive feedback**, fostering an environment conducive to student learning.

PROJECTS

My Personal Website: *justinsoberano.com*

- Inspired by the arcades of the 1980s, **I developed and designed a responsive website from the ground up** using React, ThreeJS, and React Spring with the aim of showcasing achievements and the reach of my abilities.
- **Employed a mobile-first approach**, prioritizing performance and accessibility while also maintaining fluid layouts, scalable images, and touch/click friendly elements.

TECHNOLOGIES & SKILLS

Languages and Frameworks: C C++ Java Javascript Python SQL HTML/CSS React NodeJS
Tools: Git VSCode JetBrains Suite Android Studio Spring Boot