Jose Daniel Gomez

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Education

B.S. Computer Science October 2019 – December 2023
Brigham Young University - Idaho *GPA: 3.3*

Coursework

Courses: Embedded Systems, Massively Parallel Computation, Parallelism & Concurrency, Computer Architecture, Database Design & Development.
Extracurricular: Certificate of Embedded Systems, Certificate of Functional Programming.

Skills

Languages: Erlang, Haskell, BASH, Clojure, Python, SQL, C/C++
Frameworks & Tools: Tableau, FreeRTOS, Torchvision, NixOS, FreeBSD, OpenSSH.

Relevant Experience

Cybersecurity Engineer | *Crimson Vista* March 2024 – Present

- Hired full-time for Crimson Vista Inc., consulting firm specializing in cybersecurity solutions.

Python Architect | *ObjectSecurity* October 2023 – March 2024

- Analyzed legacy code to attempt better and experiemental infrastructure as code with a more deterministic and declaritive approach.
- Leveraged cutting-edge AI technologies, including Pytorch, Torchvision, and LangChain to develop innovative solutions and enhance internal software.
- Pitched and pioneered the use of NixOS within the company as a solution to Linux server deployment.
- Implemented dynamic loading of AI-transformations and Loss Functions with implications for training Large Language Models.

Project Manager | *Deseret Management Corporation* May 2021 – March 2022

- Successfully led cross-functional teams comprising graphic designers, business analysts, and advertising specialists to deliver high-impact projects on time and within budget.
- Acted as a liaison between technical and non-technical stakeholders, translating technical requirements into actionable tasks and ensuring clarity of project scope and deliverables.

Projects

The Proximity-Saver | *C, Arduino C* November 2022
Using an Arduino microcontroller and ultrasonic technology, created a vest to be worn by the visually-impared or otherwise blind to navigate their environment by sense and feeling of vibration. Created alongside engineers Mathew Fick, and Ian Rose. Written using the C programming language and its libraries.

NixOS Deployable Environment | *Nix, Linux* August 2022
Utilizing the new and experimental Linux Operating System NixOS, Nix-Flakes enables Linux distributions to be deployed on low-level embedded hardware with purity. This is primarily achieved declaratively using a special programming language called 'Nix' and its associated philosophy.