FONTAINE COUTINO VILLARREAL

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EDUCATION

University of Arizona   Tucson, AZ
B.S. Computer Science *GPA: 3.5.*   Aug 2018 - Jul 2022

PROFESSIONAL EXPERIENCE

Pinnacle Aerospace   Pinnacle Aerospace is a leading provider of nearshore software development solutions for the aerospace industry, and I had the privilege of working on several key projects.
Software Engineer   Sep 2022 - Present

- Collaborated on the development of the Ground-Based Tool, which serves as an interface between an Aircraft's ACMS and ground-based operators. In this role, I focused on developing the ACMS's signal functionalities and verified development reports, utilizing Go and PostgreSQL for backend services, as well as Swagger and Git for additional support.
- For the Ground-Based Tool, I was able to optimize multiple endpoints and achieved a 10-fold increase in speed of signal creation and storage.
- Developed a web-based application to manage reservations for Pinnacle's meeting rooms, demonstrating my proficiency in both the back-end with .NET Core 6 and the front-end with Angular 14. In this role, I also utilized tools such as PostgreSQL, Postman, CRQS, and MVV to ensure optimal results.
- Working with multiple frameworks and languages, I leveraged 1 year of experience with Go, PostgreSQL, .NET, Angular, Git.

Freelance Development As a freelance software engineer, I was tasked with developing a responsive website for Marvil BR, a Mexican-based real estate company specializing in properties and lots in Cd. Obregon, Sonora.
Software Engineer   Nov 2020 - Aug 2022

- Responsible for building a responsive site to display properties and land from the real estate market. Prepared website proposal and customized to meet client's requirements.
- In this role I followed Scrum as the project management system, which gave me multiple years of experience in it. Here I garnered practical experience with WordPress, Bootstrap, Elementor, and Bash.

University of Arizona
C.S. Course Coordinator   Aug 2019 - Jun 2022

- Developed new course material by creating detailed programming assignments, specialized on Python and Java.
- Work with professor to keep curriculum and all documentation current. Supervised 20-25 students by being responsible for grading their assignments in a consistent matter.

TECHNICAL SKILLS

Languages:	Python (1.5y), Go (1y), C# (1y), Javascript/Typescript (2y), SQL (1.5y), Java (.5 y).
Framework:	Angular, ASP.NET, NodeJS, ExpressJS
Development:	Git, Linux, Docker, REST API.
Practices:	Scrum/Agile Environment, Test Driven Development, MVC/OO Programming.

PROJECTS

Celebs Don't Care *Go, PostgreSQl, Javascript/HTML/CSS, Bootstrap, Bash.*
Application to track CO2 emissions by private jets of certain celebrities.

Magnify *Angular, Spotify API.*
Developed Spotify tool to generate personalized playlists based on users current listening patterns. Knowledge in REST APIs allows for a better user experience.

Far From Home *Unity, C#, Blender.*
Far From Home is a single player adventure game developed in collaboration with UofA students. Worked on world interaction utilizing C# for event handling.

PassGen *Go, Bash*
The "Password Generator CLI" is a Go application designed to generate highly secure passwords based on user specifications. Gained experience developing for Bash and Linux.