Software Engineer

GERARDO ARRIAGA

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EDUCATION

Majors in Nuclear Engineering and Computer Science
University of Wisconsin-Madison
Bachelor of Science | September 2015 - September 2019

Full-Stack Web Development with React Specialization
Hong Kong Institute of Technology
Certification | 2021 - 2023

Machine Learning Specialization
University of Washington
Certification | 2021 - 2023

Applied Data Science with Python Specialization
University of Michigan
Certification | 2021 - 2023

SKILLS

- Python, Pandas
- Full-Stack, MERN Next.js
- Jupyter Notebooks
- Javascript, Typescript
- SQL and Mongo Database
- Machine Learning
- RESTful API integration
- HTML/CSS
- Data Visualization

EXPERIENCE

Hyperwave Solutions
Developer, Data Analyst | 2020 - 2021

My role was to develop computational fluid dynamics software for the purpose of modeling a given product. I also assessed data output to inform our design process.

Freelance
Full Sack Developer | 2023 - current

Frontend web development work forf local businesses, then Upwork freelancer for full-stack development, data analysis, web-scraping, API integration and more

About me

During my time at UW-Madison i earned 196 credits and a dual degree in Nuclear Engineering and Computer Science. I completed comprehensive projects including building a compiler from scratch and leading a team in the conceptual design of a nuclear power generation plant.

I have since sought to further develop my skills in technical design and bottom-up integration of concepts. The first opportunity I had to achieve this was at Hyperwave Solutions, a startup with the mission of developing new products and patented technology. My responsibilities there included developing the computational software in FORTRAN based on physical principles of fluid dynamics and mathematical principles of numerical analysis.

Followinjg this opportunity I have continued my education in general software development through various bootcamps and certification programs. My efforts now are in growing a freelance software developer businiess so I can learn as much as I can from enterprising clients about building a product or business from the ground up, as that is my ultimate long term goal.