Rodolfo Villalba

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SUMMARY

Working as a Transportation security officer, I worked in a high-stakes, government regulated environment, and I maintained a Secret government security clearance. As a knowledge engineer, I regularly modeled logical reasoning. A key responsibility I had was to elicit subject matter experts and collaborate with my team to distill and present the gathered data for an end user. Learning to troubleshoot helped me learn how to effectively debug code. I also have experience with collaboration tools such as Github and Trello. My goal is to collaborate with an engineering team in an environment where mentorship and continuous learning is fostered and celebrated.

LANGUAGES | FRAMEWORKS | TOOLS

JavaScript, React, HTML, CSS

EXPERIENCE

Calling Card — LaunchCode Capstone Project

- A front-end single page app that allows users to generate and save a digital business card.
- Live card preview shows the user changes as they interact with the provided form.
- Card download allows the user to save the generated card as a png file to their device.
- The project was developed with scalability in mind, using React components to remain scalable and flexible.
- Developed primarily using props, useRef, and useState hooks in React as well as the html2canvas library.

Knowledge Engineer — American Trade School

August 2014 - Present

- Researched different military power and communication systems and interviewed subject matter experts to develop troubleshooting procedures for end users.
- Collaborated with a team of knowledge engineers and a software developer to meet deliverable timelines and complete projects.
- Analyzed probabilistic models in bayesian belief networks and tested edge cases to ensure a functional user GUI.
- Created, edited, and validated troubleshooting standard operating procedures and accompanying images that saved the Army $27 million in direct labor costs from an investment of $8 million by reducing the requirement for technical support personnel.
- Franz Edelman Award for Achievement in Operations Research and the Management Sciences laureate.

Transportation Security Officer — Department of Homeland Security

May 2013 - June 2014

- Maintained a Secret government security clearance.
- Screened hundreds of travelers requiring strong customer communication and management skills.
- Memorized and administered dozens of security screening protocols daily.

EDUCATION

LaunchCode, Software Development, 2025

Dominican University, B.A., Psychology