Cesar Hinojosa

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Software Engineer passionate about building reliable, scalable software with hands-on experience developing and deploying production software.

Skills

Languages/Technologies: Go, C, C++, Docker, Java, Kubernetes, Linux, CI/CD, Containerization, C#, Kotlin, Python, Pytest, Flask, Unity, JavaScript, PHP, SQL, Bash, Assembly, SpringBoot, SpringFramework

Experience

Associate Software Engineer: Northrop Grumman – San Antonio, TX   Oct 2024 – Present

- Served as lead developer on a production system delivering a containerized Kotlin/Python application deployed to a Kubernetes environment. Took ownership of major reliability, automation, and infrastructure improvements that enhanced system stability and streamlined deployment pipelines.
- Implemented automated integration testing using pytest, significantly improving system reliability and preventing multiple major production issues.
- Designed and developed a RESTful API in Kotlin (Spring Boot) to replace an unstable and insecure data flow, improving data integrity and maintainability.
- Led team during a program-wide transition to CI/CD, automating deployment processes and developing comprehensive pre- and post-install validation tests. Collaborated directly with clients to define requirements and ensure successful adoption.

Cyber Software Engineer Intern: Northrop Grumman – San Antonio, TX   May 2023 - July 2023

- Developed and maintained embedded software in C++, collaborating with senior engineers to enhance system functionality and reliability.
- Gained practical experience with Linux and virtualization, supporting software builds, testing, and deployment in simulated hardware environments.

Game Developer Intern: Resilience Inc. – Remote   Oct 2022 - May 2023

- Designed and developed an educational PC game aimed at teaching children task prioritization through interactive gameplay and creativity. Utilized C/ and Unity to deliver an engaging, functional prototype from concept to implementation.

Education

University of Texas at San Antonio, BS in Computer Science   Oct 2020 - May 2024

- Major GPA: 3.9/4.0
- Coursework: Algorithms, Operating Systems, Advanced Software Engineering, Object Oriented Programming

Publications

Hinojosa, C., et al. "TrainYourSnakeAI: A Novel Tool to Teach Reinforcement Learning to Middle School Students" Proceedings of the 56th ACM Technical Symposium on Computer Science Education V. 1. https://doi.org/10.1145/3641554.3701907

Projects

POSIX compliamnt Shell (Go), Digital Bookshelf (Flask, AWS, Python), Educational Pizza Game (Unity, C#), Merchandise Inventory System (Python, API, SQL), Train an AI (Python, RL, WebSockets), War Card Game (Java, OOP, Design Patterns)