Robert A. Walls III

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Desired Role and Objective
Looking to join a fast paced team environment as a utility member familiar with a broad scope of technologies. Most Interested in product research and design, full-stack engineering, and back-end development, but open to other opportunities.

Technologies used 05/16 – Present
Perl, Mirth Connect, Python3, JavaScript, Linux (Ubuntu), bash, cron, Jenkins Pipelines for CI/CD, Java, Java Spring Boot, Jhipster, Angular 9, git, GitLab, R, Docker, Kubernetes, PostgreSQL, AWS EC2, AWS Route53, Microsoft Excel

DEVELOPMENT & IT EXPERIENCE

Solo Contractor – Software Engineer – Walls Technology Solutions 05/16 – Present
Utilize software development cycle to plan, develop, deliver, and continuously deliver applications to multiple clients in the Healthcare industry.

Logistics & IT Support Specialist for Integrity Health Plus 03/15 – 05/16
Worked under chief information officer and director of technology to aid in information technology availability to coworkers. Implemented and maintained active directory, network servers. Created scripts and tools for accessing records from a 3rd party Laboratory Information System and tutorials for getting data from an Enterprise Resource Planning Program.

Engineering Technician - J. L. Arnold Engineering Inc 11/14 – 03/15
Applied Engineering principles to the analysis of soil samples. Created maps of job sites for use in civil engineering reports. Created time management tracking tools to transition from a paper-based system.

EDUCATION & RESEARCH

The University of Texas at Austin, Graduated May 2013
B.S. in Aerospace Engineering & Engineering Mechanics

Satellite-Based Navigation 10/12 – 12/12
Created a MATLAB program to analyze electric impulse data and create visualizations of frequency alterations due to GPS spoofing attempts, effectively showing certain GPS spoofing attempts could be detected.

Low-Speed Aerodynamics 9/12 – 11/12
Captured air flow dynamics and created GIFs of airflow over and through a cavity designed by the team showing how passing air reacts to a cavity inside a moving body.

Space Mission Design 01/12 – 5/12
Researched and designed power & communication subsystems for a proposed space mission to Ceres to detect water/ice under the surface. Created and managed mass budget tables for each subsystem using Microsoft Excel. Performed Risk analysis using Monte-Carlo method.