Devin Padron

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SKILLS

Languages: C++ | C | Python | JavaScript | HTML | CSS | SQL | Bash | Shell
Technologies: Qt | Visual Studio | Git | GitHub | ZenHub | Flask | Azure | AJAX | HxD
Other: Linux | Unix | Object-Oriented Programming (OOP) | Agile

EXPERIENCE

Software Engineer   Jul 2023 – Present
Pratt & Whitney   *West Palm Beach, FL*

- Developed C++ applications for Windows and Linux environments, supporting real-time data acquisition of aircraft engines.
- Designed and developed Qt-based GUI application enabling users to modify and visualize data files.
- Automated file server cleanup using bash script, achieving a 40% reduction in excess storage and improved customer workflow.
- Implemented a multi-threaded solution using a producer-consumer model to correct inaccurately processed files.
- Led testing of critical software releases, ensuring 100% pass-rate of test cases and bug minimization.
- Designed an SQL schema for an application enabling users to create custom symbolic links for data file offloads, optimizing data management and accessibility.
- Managed all phases of the software development lifecycle, from requirements definition to deployment, ensuring high-quality and timely software delivery.
- Operated within an Agile team structure, managing code versions and tasks through Git and GitHub, streamlining collaboration and deployment processes.

Mechanical Engineer   Sep 2019 – Jul 2023
L3Harris Technologies   *Melbourne, FL*

- Generated test report visualizations using Python, highlighting critical data to ensure precise deployment timing of antenna.
- Authored and delivered critical design review for the drive-train subsystem of an $80 million satellite.

PROJECTS

Scrabble-Blitz | Link | *Python, Flask, AJAX, JavaScript, SQL*   Apr 2023 – Jun 2023

- Developed web based board game simulating interactive Scrabble scenarios, garnering over 5,000 monthly site visits.
- Conducted extensive manual testing, including edge case analysis and user scenario validation, ensuring robust performance and a high-quality user experience.

TradeSmart Pro | *SQL, Python, JavaScript*   Mar 2023 – Apr 2023

- Created an advanced web-based stock trading application with real-time market data.
- Utilized SQL to store and manage user trade history and leveraged IEX Cloud API to access up-to-date trading information.

EDUCATION

Florida Institute of Technology   Melbourne, FL
Master of Science in Space Systems   *May 2022*

University of Puerto Rico, Mayaguez   Mayaguez, PR
Bachelor of Science in Mechanical Engineering   *May 2019*