

# Daniel Perrefort

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Quality-driven software design and engineering professional with 7+ years of experience in continuous integration, unit testing, standards for writing quality software, git/GitHub, and new feature development. Expert in leading all software design, development, and deployment for a University super-computing center. Proficient in leading projects and coordinating with departments in systems design, programming product definition, release documentation, and data transmission.

## Professional Experience

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### University of Pittsburgh | Pittsburgh, PA Research Assistant Professor | June 2021 - Present

- Accelerate user engagement by designing, implementing, and deploying back-end software solutions to support 3 new customer services, earning recognition for resourcefulness and productivity
- Blueprint and teach three-hour workshops on software engineering principles, including git/Github, software design, CI/CD, and software testing
- Train and mentor 4 junior team members on software development fundamentals, including OO design, version control systems, and common software quality standards
- Revitalize team roadblocks into opportunities by leading 5 dedicated projects to catalog and pay off long-standing technical debt
- Spearhead the team-wide adoption of modern software development workflows and tools while working to improve overall software quality, achieving institutional versatility in the industry
- Consult in conjunction with 12 faculty and engineers to build a service platform delivering a seamless experience with a high level of performance

### University of Pittsburgh | Pittsburgh, PA Graduate Research Assistant | August 2015 - May 2021

- Directed the development of object-oriented software tools designed to streamline workflows and simplify data processing, reducing project onboarding time by over 40%
- Maximized on data-driven communication to collaborate effectively with teams having diverse levels of expertise and experience
- Collaborated in diverse software ecosystems to build web, API, and command-line software tools
- Optimized scientific software projects at both the development operations and source code levels by offering personalized project consultations and code reviews
- Coordinated with solutions architects from a world-leading software company to configure scalable, cloud-based systems for processing scientific data streams
- Lead 3 research projects to analyze data and design procedures to support the world's largest optical telescope

## Core Competencies

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Microsoft Office Suite, Data Analysis and Presentation, Software Development, Test Cases, Project Planning and Implementation, Software Engineering Principles, Process Improvement, Quality Control, Compliance

## Technical Skills

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Python, SQL, Java, Git, Bash, Linux/Unix, Docker, CI/CD, GitHub, GitHub Actions, Jenkins, Travis

## Education

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**Ph.D. in Physics**, University of Pittsburgh, 2021  
**Master of Science in Physics**, University of Pittsburgh, 2017  
**Bachelor of Science in Physics**, University of Connecticut, 2015