

Daniel W. Parker

Email:
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EDUCATION

- August 2018 – December 2021 **West Chester University, West Chester PA — Full Time Student**
- Bachelor of Science, Computer Science
 - Minor: Astronomy

EMPLOYMENT EXPERIENCE

- August 2021 – Present **West Chester University, West Chester PA — Data Analyst**
- Create graphs of spectral data from Chandra X-ray Observatory observations using S-Lang
 - Maintain and expand codebase to automatically fit gaussian functions to observed spectral and atomic data
 - Document old and new changes to codebase for easier understanding of functions and scripts
- January 2020 – March 2021 **West Chester University, West Chester PA — HPC Astronomical Research Assistant**
- Compose Python scripts to automate final animations for presentations and papers
 - Utilize high performance computing to visualize the magnetic field & x-ray luminosity of supermassive stars using VisIt
- September 2019 – March 2020 **West Chester University, West Chester PA — Planetarium Assistant (Seasonal)**
- Operate the planetarium computer to run public informational shows for students and families
 - Present a thirty-minute tour of the night sky over the microphone in a calm and organized manner to educate the audience about the night sky and deep space
 - Requires public speaking and time management skills to ensure the customers have a pleasant experience and leave on time
- July 2018 – August 2019 **Shop 'n Save, Gibsonsia PA — Grocery & Frozen Associate (Seasonal)**
- Maximize the stores sales by ensuring all products are stocked on the shelves and are fully visible to the customers
 - Receive and organize product shipments to quickly replenish items on shelves
 - Requires close attention to details, the ability to conduct moderate to heavy physical labor, and strong organizational skills

PERSONAL PROJECTS

- February 2018 – Present **Designing and Developing Unity Video Games**
- Design, build, and maintain optimized, reusable, and reliable code in C#
 - Plan, implement, and test all game functionality for optimal user experience
 - Diagnose system bottlenecks, bugs, and errors

Programming Skills

Advanced

- Java
- C#
- Python

Intermediate

- SQL
- HTML
- CSS
- JavaScript
- Spark

General Skills

Advanced

- Microsoft Word
- Microsoft Excel
- Microsoft PowerPoint

Intermediate

- SCRUM development cycle
- Linux Knowledge
- Unity
- Eclipse
- Visual Studio

PROJECT PORTFOLIO

Danielwparker.space

