

Ryan Kenney

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Education

Purdue University - West Lafayette

Bachelor of Science in Computer Science
Expected Graduation: 2027

Experience

NASA – Software Engineering Intern

Summer 2025

- Assisted in the development of a regional air mobility sized aircraft optimization tool in order to improve the scalability and maintainability of the codebase.
- Provided software development expertise to help plan for the future of the project to ensure the code can meet the modular requirements for planned additions.

NASA – Software Engineering Intern

Summer 2024

- Developed a comprehensive tool to facilitate seamless data transfer in and out of NASA's cost estimation tool, SEER-H.
- Leveraged Python and multiple APIs to automate data translation, significantly reducing processing time.
- Standardized workflows across NASA's cost estimation teams, improving scalability and accuracy.

NASA – Data Science Research Assistant

Fall 2022 – Spring 2023

- Conducted parametric cost analysis of fully reusable vs. fully expendable architectures for payload delivery to geostationary Earth orbit.
- Utilized statistical models and data-driven methodologies to analyze cost trade-offs and performance metrics.
- Assisted in preparing research findings for internal reports, presentations, and possible publication.

NASA – Software Engineering Summer Volunteer

Summer 2022

- Developed software to streamline data movement into the SEER-H program, enhancing efficiency in cost estimation workflows.
- Designed a system to translate orbital mechanics data into a structured format for analysis.
- Contributed to the development of a project proposal review system, improving evaluation processes.

Skills

- **Programming Languages:** Python, C, C++, Java, JavaScript, x86-64 Assembly, SQL, JS, HTML, Node.js, ReactJS, Lua, C#, Bash
- **Tools & Technologies:** SEER-H, Microsoft Office Suite, APIs, Data Analysis & Visualization, ChatGPT, Microsoft Copilot, Unix Systems Programming
- **Concepts:** Data Science, Machine Learning, Cost Estimation, Software Development, Parametric Analysis, Statistics, Dynamic Programming, Algorithm Development, DevOps

Extracurricular Activities

- **Competitive Programming**
 - 1st Place – Great Computer Challenge
 - 2nd Place – Great Computer Challenge
 - 2nd Place – VCU Coding Competition
 - 10th Place – UVA Coding Competition

Projects & Additional Experience

- Developed a simple C compiler using Lex, YACC, and x86-64 assembly
- Developed a full stack social planning web app leveraging Amazon AWS SQL, React, Tailwind, and Nextjs
- Developed a multi-dimensional constraint satisfaction fantasy football team optimization tool utilizing tabulation in Python.