Rohan Pandey

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Summary

Aspiring Software Development Engineer Intern with extensive experience in Python, Java, C++, and SQL. Proven track record in developing machine learning models, designing autonomous rocketry systems, and managing databases on the Azure Cloud Platform. Successfully led projects at NASA and the University of Washington, showcasing strong problem-solving and leadership skills. Eager to leverage technical expertise and project management experience to contribute to innovative software development projects.

Work Experience

NASA - National Aeronautics and Space Administration **May 2024 - Present**

Project Manager

- Led a low-cost robotic surface reconnaissance project to map near-surface water ice in the lunar South Pole's Permanently Shadowed Regions, ensuring task completion and document consistency to support future moon landings

University of Washington, Department of Applied Mathematics **Apr 2023 - Present**

Research Intern

- Conducted research with Dr. Konstantinos Mamis on combinatorics and moments of normal distribution, analyzing extensions of Stein's Lemma and performing matrix manipulations. Investigated the theory of Gaussian processes with applications in stochastic dynamical systems for epidemiology and cancer modeling, contributing to the development of new mathematical models

Society of Advanced Rocket Propulsion Recovery **Oct 2022 - Jun 2024**

Electronics Lead

- Led a team to build a recovery system that guides the rocket back to a GPS location. Analyzed the flight path using C++ and Python, and designed a load cell algorithm with Arduino. Developed a data transmission system to model the rocket flight path and plot its GPS location

Education

University of Washington **Sep 2022 - Dec 2025**

Bachelors of Science

Projects

Research Rover **-**

- Innovative website designed to assist users in their research endeavors
- Provides targeted research topics, links to research papers, and summaries of relevant models and statistics
- Built using LLMs and Crew AI

Skills

- Python, C++, Java, SQL, Data Analysis, Large Language Models, Natural Language Processing, Machine Learning, MATLAB,