

Rohan Dasanoor

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EDUCATION

Purdue University

B.S. in Computer Science

West Lafayette, IN

Expected May 2029

- Relevant Coursework: CS 18000 (Object-Oriented Programming), CS 19300 (Tools), TDM 10100 (Data Science Computing), MA 26100 (Multivariate Calculus)

EXPERIENCE

NASA Engineering Scholars Program Intern

NASA Glenn Research Center

Aug. 2025 – June 2026

Cleveland, OH

- Designed and fully tested three rover wheel prototypes for lunar/Martian surface mobility, evaluating traction and load capacity against a dry-sand grade benchmark and a Mars Curiosity Rover wheel replica baseline
- Tested a solar-panel electrical board's power transmission system, validating circuit performance ahead of integration into the mobility platform

Software Engineer Intern

Cleveland Clinic Akron General

June 2025 – Aug. 2025

Akron, OH

- Analyzed multiple years of historical data on medical intern performance, identifying specific efficiency bottlenecks and high-performing practices to inform program leadership's optimization decisions
- Collaborated with healthcare professionals to test and integrate a new AI-based medical scribe tool, aggregating structured usability and accuracy feedback that shaped refinements before rollout

PROJECTS

Vehicle Crash Risk Prediction | *Python, scikit-learn*

- Built an end-to-end machine learning pipeline on NHTSA's FARS 2024 national crash dataset to predict crash injury severity and generate continuous 0–100 insurance risk scores
- Trained a RandomForestClassifier with class-weight balancing to correct severe class imbalance in crash outcomes, using predict_proba() outputs to drive a custom premium-multiplier scoring function
- Structured the pipeline into modular, independently testable components (preprocessing, training, prediction), resolving dtype and environment inconsistencies across a Jupyter/VS Code workflow

Real-Time Color-Detection Aim Assistant | *Python*

- Built a real-time computer-vision tool that continuously scans the screen for target colors and automates cursor movement and clicks, compensating for imprecise aim without a physical mouse
- Re-engineered single-color detection logic after it broke down across varying in-game character skins, adding disambiguation logic that uses more than color alone to identify targets
- Diagnosed screen-capture latency as the primary bottleneck in the real-time detection loop under continuous operation

LEADERSHIP & ACTIVITIES

Finance Pillar Member

Purdue Momentum

Sept. 2026 – Present

West Lafayette, IN

- Analyzing a stochastic market-making model (Avellaneda–Stoikov), evaluating risk/reward tradeoffs across P&L, drawdown, and tail risk to assess strategy robustness under varying volatility regimes

Mentee

BEEP – Embedded Systems Mentorship Program

Sept. 2026 – Present

West Lafayette, IN

- Learning embedded systems fundamentals under mentorship while building toward a team capstone project

TECHNICAL SKILLS

Languages: Python, Java, C#, R

Libraries: scikit-learn, XGBoost, pandas

Developer Tools: Git/GitHub, VS Code, Jupyter Notebook