Amaan Khan

amaan@wustl.edu | (609) 787-9839

Research Interests

Trustworthy AI, ML Security and Adversarial Robustness, Cyber-physical systems

---

Education

Washington University in St. Louis

Master of Science in Cybersecurity Engineering   Expected 2027

Graduate Certificate in Machine Learning and Data Mining

Washington University in St. Louis

Bachelor of Science in Computer Science   2025

Research Experience

Cake-Cutting Fairness Explorations   2025

Washington University in St. Louis, CSE REU Program

Advisor: Dr. Ron Cytron

- Studied and implemented fair division algorithms including cut-and-choose, divide-and-choose, and envy-free protocols for divisible and indivisible resources
- Analyzed algorithmic trade-offs between fairness criteria (proportionality, envy-freeness, Pareto efficiency) in resource allocation
- Developed educational exercises demonstrating computational complexity and game-theoretic properties of cake-cutting algorithms for Mozilla's Responsible Computer Science curriculum

---

Teaching Experience

Washington University in St. Louis

Department of Computer Science and Engineering

Teaching Assistant Positions:

CSE 468T - Introduction to Quantum Computing (One semester)   2025

CSE 131: Introduction to Computer Science (Three semesters)   2022–2023

Department of Mechanical Engineering and Materials Science

MEMS 202: Introduction Computer-Aided Design (One semester)   2022

Leadership & Activities

WashU Robotics

SWARM Team, Software Engineer   2024–Present

WashU AI Racing

Perception Team, Software Engineer   2026

Awards & Honors

CMD-IT/ACM Richard Tapia Celebration of Diversity in Computing Conference Scholarship, 2025. Full scholarship from Washington University McKelvey School of Engineering