Hari Desikan

hdesikan@andrew.cmu.edu | haridesikan.com | https://github.com/HeuristicHari

EDUCATION

CARNEGIE MELLON UNIVERSITY <div align="right">Pittsburgh, PA</div>

B.S. Computer Science <div align="right">May 2026</div>

Coursework: Algorithms, Linear Algebra, Probability, Machine Learning, Real Analysis, Graph Theory

EXPERIENCE

Meta <div align="right">Menlo Park, CA</div>

Software Engineer Intern <div align="right">May 2024 - Present</div>

- Design and implement interactive window to aid in compliance with **8 categories** of ad fairness laws
- Leveraged internal software to continuously integrate features onto Facebook's ads manager platform
- Implement gesture-tracking for use in data analysis of user interactions, including logging **338% more interactions** than the previous modal and projected to log **175 million clicks** by the end of 2024
- Utilized: React JS, PHP, Hack

PROJECTS

AspireNow <div align="right">Jan 2024 - March 2024</div>

- Backend developer for AspireNow – built data parsing algorithm for PokerNow
- Streamlines no-limit hand analysis by sorting hands, including by betting lines, flop structures, and other common metrics. Includes ~30 selected HUD stats as well as the tools to compute more
- Utilized: Python, Pandas

Perudo Online (perudoonline.com) <div align="right">May 2023 - Present</div>

- Full-stack developer for Liar's Dice (personal project) – an incomplete information game
- Includes regional variants and rulesets including the one used by front-page result dudo.ai
- Training and Tuning Counterfactual Regret model to beat dudo AI
- Utilized: NextJS, NodeJS, HTML, CSS, Javascript, Socket.io, Python, Pytorch

Developing Contrast-to-Noise Ratio Thresholds for the Detection of MCF-7 Breast Cancer Tissue in Acoustic Shadows

Research in Physics Program (RPhys) <div align="right">Oct 2020 - Jun 2022</div>

- Developed a novel computational method to detect cancerous tissue based on recent research (2018)
- Presented at State of NC Undergraduate Research, NC International Science Challenge Finalist
- Utilized: MATLAB, Python, Field II Simulation, Ultrasound Transducers

ACTIVITIES

Carnegie Mellon Informatics and Mathematics Competition <div align="right">Pittsburgh, PA</div>

Logistics Committee Head <div align="right">Oct 2022 - Present</div>

- Organized social events and directed tasks like preparing and handling awards for the competition
- Write 10+ problems for contests including longer proof problems and a Theoretical CS problem
- Organize HMMT staff exchange, including planning logistics for volunteer trip to MIT and Harvard

Poker <div align="right">Pittsburgh, PA; Remote</div>

Host, Player <div align="right">Oct 2022 - Present</div>

- Host and play in biweekly online no-limit mid-stakes poker games on 5+ online poker servers
- Host 5 weekly live professional home games, including refreshments and meals for participants
- Qualified for the CMU SIG Invitational Poker Tournament

SKILLS

Technical Skills: Python, Pytorch, C, PHP, Java, Javascript, MATLAB, Websockets, Git, React JS

AWARDS

STEM Competitions: Putnam 2023 Top 350 Award, 207 USAMO Index, USA Physics Olympiad