Hari Desikan

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EDUCATION

CARNEGIE MELLON UNIVERSITY   Pittsburgh, PA
B.S. Computer Science   May 2026
Coursework: Algorithms, Linear Algebra, Probability, Machine Learning, Real Analysis, Graph Theory

EXPERIENCE

Meta   Menlo Park, CA
Software Engineer Intern   May 2024 - Present
- Handle continuous integration of features involving Facebook's Ads Manager platform
- Design education modal aimed at facilitating Ad creators with complying with with fairness laws
- Implement click-tracking for use in data analysis regarding user interactions
- Utilized: React JS, PHP, Hack

PROJECTS

AspireNow   Jan 2024 - March 2024
- 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)   May 2023 - Aug 2023, Jun 2024 - Present
- Full-stack developer for Liar's Dice, a personal project
- 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)   Oct 2020 - Jun 2022
- 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   Pittsburgh, PA
Logistics Committee Head, Problem Writer   Oct 2022 - Present
- Gained valuable leadership experience organizing social events and directing essential tasks
- 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   Pittsburgh, PA; Remote
Host, Player   Oct 2022 - Present
- Host and play in biweekly online no-limit poker games
- Played a pivotal role in the design of a ceramic poker chip series
- Qualified for the CMU SIG Invitational Poker Tournament

SKILLS

Technical Skills: Python, C, Java, Javascript, NextJS, ReactJS, NodeJS, HTML, CSS, Bootstrap, MATLAB, Websockets, Socket.io, Git, GDB, Unix, Linux, PHP, Hack, Pytorch, Pandas

AWARDS

Science Competitions: Putnam 2024 Top 350 Award, 207 USAMO Index, USA Physics Olympiad