

RISHABH JAIN

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EDUCATION

Carnegie Mellon University

B.S. in Electrical and Computer Engineering, GPA: 3.7/4.0

Relevant Courses: Parallel Algorithms + Data Structures, Embedded Systems, Computer Systems, Computer Security

May 2022

EMPLOYMENT

Applied Intuition, Software Engineer, Mountain View, CA

Aug. 2022 - Current

Vehicle Platform

- Bringing up embedded reference boards (BSP, cross compilation toolchain, SDK components)
- Optimizing and benchmarking ML model performance on embedded HW
- Reverse engineering and integrating automotive systems

Apple, Hardware Engineering Intern, Sunnyvale, CA

Apr. 2021 - Aug. 2021

Camera and Depth Architecture

- Devised objective and subjective metrics characterizing image quality
- Designed and conducted end to end experiments correlating as built designs to simulations
- Developed software tools for analyzing performance and driving hardware improvement

Tesla, Software Engineering Intern, Palo Alto, CA

Jan. 2021 - Apr. 2021

Autopilot Sensing

- Developed regression testing tool for signal processing algorithms
- Streamlined sensor signal processing simulation workflows

Lyft, Hardware Engineering Intern, Palo Alto, CA

June 2020 - Dec. 2020

Autonomous Vehicle Sensors

- Simulated and optimized Image Signal Processor (ISP) pipelines based on perception metrics
- Tested image processing pipeline and data logging system on an embedded linux board
- Optimized fleet image data capture pipeline for increased quality and reliability

Carnegie Mellon University, Teaching Assistant, Pittsburgh, PA

Jan. 2020 - May 2020

Introduction to Computer Systems (15-213)

- Developed, deployed and maintained core course infrastructure with over 500 users
- Taught recitations and held office hours on systems topics including memory, networking, and concurrency
- Led exam question development team generating question objectives and templates

ACTIVITIES

Tartan Autonomous Underwater Vehicle

Sept. 2018 - Aug. 2022

- Leading perception and autonomy software development
- Testing and integrating sensors with the NVIDIA Jetson embedded computer
- Fabricating and assembling the AUV and test environments

PROJECTS

Torby

Aug. 2020 - Aug. 2021

Delivering frictionless audio lounges with a simple interface built around the call itself

ACHIEVEMENTS

Top 10 Hack, Best Hardware Hack, Best Health Hack, PennApps

Sept. 2019

Summer Undergraduate Research Fellowship, Carnegie Mellon University

May 2019

Finalist, Intel International Science and Engineering Fair

May 2017

SKILLS

Languages: Python, C/C++, MATLAB, Verilog, SML