

Kari Naga

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Education

University of Michigan

Ann Arbor, MI

Bachelor of Science in Engineering in Computer Engineering

May 2024

GPA: 3.975/4.0

Course Highlights: Operating Systems, Data Structures and Algorithms (C++), Parallel Programming with GPUs (CUDA), Embedded Systems (ARM), Computer Architecture (C and Assembly), Computer Security, Computer Networks, Web Systems, Compilers, Game Engine Design, Video Game Design and Development

Awards/Honors: Voy and Joan Bradetich Endowed Scholarship, Lou R. & Marguerite M. Crandall Scholarship, James B. Angell Scholar, William J. Branstrom Freshman Prize (top 5% of class), Tau Beta Pi, Dean's List, University Honors

Work Experience

Capital One

McLean, VA

Associate Software Engineer

August 2024 - Present

Capital One

McLean, VA

Software Engineer Intern

June 2023 - August 2023

- Developed an application clustering and recommendation engine with a team using Agile methodology
- Passed through code review and wrote IaC for DevOps pipelines in order to deploy app to dev and QA in AWS

Leadership Experience

University of Michigan Autonomous Robotic Vehicle Team

Ann Arbor, MI

Sensors Subteam Lead

January 2023 - June 2024

- Developed and documented the team's simulation environment and robot model with accurate emulated sensors
- Implemented and tuned simultaneous localization and mapping with Google Cartographer using our lidar, IMU, wheel encoders, depth camera, and GPS in the simulation and on our actual robot hardware
- Elected as subteam lead, whose responsibilities include team planning and communication, organizing and running meetings, and onboarding new members

Origami Club at the University of Michigan

Ann Arbor, MI

Co-President

July 2022 - May 2024

- Aided in forming the new organization, developing the leadership structure, writing the constitution and club rules, managing funding, planning events, and attracting new members through outreach and social media
- Helped lead club meetings, presenting on projects and lending aid to inexperienced members

Michigan Autonomous Aerial Vehicles

Ann Arbor, MI

Webmaster

April 2022 - April 2023

- Rebuilt the organization's website and onboarding infrastructure from the ground up
- Revamped the internal wiki detailing the team's functioning, hierarchy, and software infrastructure

Project Experience

Snthszr

April 2022

- Worked with a team to build a digital synthesizer with a web-based frontend built in Svelte which communicates using WebSockets with a Julia backend for audio processing and output and accepts input from a MIDI keyboard

Skills

Python, C, C++, Go, Rust, ASM, Java, Julia, JS, TS, React, Vue, Svelte, HTML/CSS, Git, Docker, Linux, AWS, GCP, Agile

Activities

University of Michigan Autonomous Robotic Vehicle Team, *Member of Sensors Subteam*

January 2023 - June 2024

Tau Beta Pi Michigan Gamma Chapter, *Active Member*

December 2022 - May 2024

Michigan Autonomous Aerial Vehicles, *Member of Software Subteam*

January 2022 - January 2023