

Kari Naga

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Education

University of Michigan

Ann Arbor, MI

Bachelor of Science in Engineering in Computer Engineering

May 2024

GPA: 3.981/4.0

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

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

Thomas Jefferson High School for Science and Technology

Alexandria, VA

GPA: 4.5/4.0

June 2021

Course Highlights: Machine Learning, Artificial Intelligence

Work Experience

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

iGloo Digital Marketing

McLean, VA

Software Engineer Intern

May 2022 - August 2022

- Designed and developed tools and web applications to help marketers analyze and report on their business and lead data in a meaningful and actionable way
- Worked directly with clients to understand their needs and implement new features based on their feedback and specific use cases (e.g. documentation, UI layout, general UX, etc.)

Leadership Experience

University of Michigan Autonomous Robotic Vehicle

Ann Arbor, MI

Sensors Subteam Lead

January 2023 - Present

- 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

Michigan Autonomous Aerial Vehicles

Ann Arbor, MI

Webmaster

April 2022 - Present

- 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

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

January 2023 - Present

Tau Beta Pi Michigan Gamma Chapter, *Active Member*

December 2022 - Present

Michigan Autonomous Aerial Vehicles, *Member of Software Subteam*

January 2022 - January 2023