

Contact

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(LinkedIn)

Top Skills

Linux

Computer Repair

Game Development

Michael Tan

Undergraduate Student at Ohio University | Currently interning for machine learning and point-set registration methods to match point clouds and 2D images | Part of the Ohio Fellows in Ohio University Philadelphia, Pennsylvania, United States

Summary

As a Computer Science major in OU (Ohio University), I am currently researching machine learning and point-set registration solutions and their applications in matching 2D and 3D image datasets together in order to develop a detailed map of terrains and environments.

I have a generalist mindset in that I seek a basic understand in a variety of topics that I am interested in, even if it does not directly connect to my specialization. Basic wiring skills and circuit testing to first aid training and rock climbing are a few of a myriad of things that excite me and I am always excited to engage with the next chapters of my life, whatever they may be.

Regarding roles and leadership experiences in OU, I am the treasurer of the Software Development Club at OU, an organization dedicated to engaging members through interpersonal projects and goals that are decided by the members themselves.

I am also a part of an experiential and non-traditional leadership program called the Ohio Fellows, allowing students to collaborate and participate directly in what leadership experiences they want to host, make decisions on how this program is run, and connect with alumni around the world.

Interests: Video Games, Trading Card Games, Hiking, Music, Running

Experience

Ohio University
Software Programming Intern
October 2023 - Present (1 year 9 months)

Collaborates with a multi-discipline engineering team sponsored by the United States Federal Aviation Administration to brainstorm creative solutions to develop an automatic robot that can scan foreign or unauthorized items/people on airport runways to ensure continual safety and operation of airports using this system

Applies point-set registration solutions such as Feature Metric Registration and Iterative Closest Point to match 3D point clouds with translational and rotational errors/differences, allowing team to focus on matching 2D and 3D airport runway image data as gathered by LiDAR systems

OU Housing and Residence Life

Residential Advisor

August 2023 - May 2024 (10 months)

Bolsters relations with over 300 residents in presiding Ohio University dorm by hosting dorm-wide events and listening to the thoughts and needs of residents, dramatically reducing problems in the floor and creating an atmosphere of respect and happiness among residents

Ensures well-being and security of residents through community meetings and fair enforcement of rules

Expands social skills and interactions through talks and conversations with residents

Education

Ohio University

Bachelor's degree, Computer Science · (August 2022 - May 2026)