Dharsan Guruparan

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EDUCATION

The University of Toledo, Toledo Ohio

Bachelor of Science: Computer Science and Engineering   Minor: Mathematics

Cumulative GPA: 3.9/4.0

Available for Co-op: Summer 2023

President's List and Dean's List recipient

University Of Toledo Scholarship Merit of Academic Excellence recipient   Anticipated Graduation: Fall 2023

RELEVANT EXPERIENCE

Undergraduate Research Assistant (RA) @ LONG Lab

The University Of Toledo, Toledo, Ohio   July 2021 – Present

- Implement and examine models of several intelligent mobility systems: FPV drones and a fully autonomous race car that is 1/10 the size of a real race car
- Conduct deep research on how to apply AI/ML in sports which improved UT athletes' performance and coaches' strategic decisions
- Support the research team's development of cases, teaching materials, manuscripts, grants, posters, and other research products and deliverables
- Used Robot Operating System (ROS) to communicate easily between Python and C++ nodes
- Participated in Fly-Ohio Innovation Challenge

Data Structures and Object-Oriented Teaching Assistant (TA) / Peer Mentor

The University Of Toledo, Toledo, Ohio   January 2023 - Present

- Assisted over 30 students in understanding object-oriented programming topics such as classes, objects, abstraction, and inheritance
- Delivered lectures on data structures such as linked lists, stacks, queues, heaps, skip lists, hash maps, arrays, dynamic arrays, binary search trees (BST)

Application Developer and IT Intern,

Plastic Technologies Inc, Holland, Ohio   May 2022 – August 2022

- Developed a full-stack, scalable, modular desktop app using C#, .NET, and linked existing database
- Upgraded existing Database applications and Web-based APIs to make data collection efficient
- Adhered to all company and information technology services computer utilization policies and procedures
- Worked independently and as a group under the direction of the supervisor
- Worked in a collaborative environment to research better IT infrastructure

IT Intern,   December 2017 - July 2018

Centre of Applied Data Science, Bangsar South, Malaysia

- Maintained knowledge of personal computer software applications and computer hardware knowledge
- Provided good written and verbal communication skills as well as technical, organizational, and clerical skills
- Continued knowledge of office equipment

TECHNICAL SKILLS & COURSES

- Java Programming 1 & 2
- Electronics 1
- Python
- Data Communications
- Object-Oriented Programming
- MATLAB

- Python
- Data Structures
- Linear and Non-Linear Data Structures
- Embedded Systems
- Signals and Systems