

Sachinda Edirisooriya

sedirisooriya10@gmail.com

(480) 643-9559

<https://sachindae.github.io/>

Milpitas, California

Work Experience

Undergraduate Honors Research Program at UCSD

Sep 2020 - Jun 2021

Conducted independent research in the field of optical music recognition advised by Taylor Berg-Kirkpatrick

- Designed a new state-of-the-art approach to end-to-end optical music recognition using PyTorch

Computer Architecture Intern at NVIDIA

Jun 2020 - Sep 2020

Developed infrastructure to improve safety and security of the Tegra SoC

- Wrote scripts with Python to implement new flows into chip build process

Intern at mCube

Aug 2019 - Sep 2019

Tested sensors for precision and reliability

- Tested power delivery and linearity of gyroscopes
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Projects

Yip (SWE Course Project)

Mar 2020 - Jun 2020

Worked in a team with nine others to create an online community-driven review platform inspired by Reddit

<https://gitlab.com/cse110-sp20/yip>

- Developed using the Rust, React, PostgreSQL, and hosted using AWS EC2
- Wrote entire backend including API/database functions using Rust, and architected the project

Mile High Restaurant (HackXR 2019 - Grand Prize Winner)

May 2019

Created a game in virtual reality in 48 hours that brings the user a high-intensity cooking experience

<https://devpost.com/software/mile-high-restaurant>

- Developed using the HTC Vive, SteamVR, and Unity
- Wrote scripts using C# and designed the gameplay/models

IEEE Autonomous Line-Following Vehicle (2nd Place Track Performance)

Oct 2018 - Jun 2019

<https://github.com/sachindae/IEEE-Autonomous-Line-Following>

Worked in a team with four others to create an autonomous line-following vehicle

- Developed using an Arduino Uno, line scan camera, and servo
- Wrote algorithms using C++ to filter raw data from camera and follow the line at high speeds

SpeakCode (SDHacks 2019)

Oct 2019

Created a web IDE for Javascript using Express that provides users the ability to code with their voice

<https://devpost.com/software/speakcode>

- Developed using Node.js, Microsoft Azure API, and hosted on AWS Beanstalk
 - Wrote code to link the front-end and back-end as well as language processing algorithms
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Skills/Awards

Languages/Software: Java, Python, C/C++/C#, Rust, JavaScript, Assembly, ML, PyTorch, Unity, OpenCV

WIC Beginner's Programming Competition 2nd Place (UC San Diego)

Dec 2018

Computer Science Student of the Year (Corona del Sol High School)

2016, 2017

Corona del Sol High School Valedictorian (Class Size ~ 700)

May 2018

Education

MS Computer Science, UC San Diego

Sep 2021 - Apr 2023

B.S. Computer Science, UC San Diego (3.9 GPA)

Sep 2018 - Jun 2021

Relevant Courses: Advanced Data Structures/Algorithms, Recommender Systems and Web Mining, Computer Architecture, Programming Languages, Object-Oriented Design, Machine Learning, AI Search and Reasoning, Operating Systems, Computer Vision, Deep Learning, Computer Security, Computer Networks, Advanced NLP, Computer Graphics, ML for Robotics