Razat Sutradhar

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Website: https://razatsutradhar.github.io/projectsite/

EDUCATION

Georgia State University, Atlanta— *Bachelors in Computer Science*

Aug 2020 - May 2023

- Algorithms, Data Structures, Linear Algebra, Calc III, Networks, Discrete Mathematics, Statistics
- Honors Student (3.52 GPA)

Gwinnett School of Math, Science, and Technology (High School)

Aug 2020 - May 2023

Course: CSA, Physics C, Calc BC, Multivariable, Linear Algebra, Differential Equations

WORK EXPERIENCE

MORSE Studio Labs (Atlanta, GA)—*Research Internship*

Principle Investigator: Ashwin Ashok, Ph.D

Sept 2021 - PRESENT

Used Arduino, Nvidia Jetsons, Raspberry Pi, Python, Java, C, and MatLab to conduct research in **underwater visual light communications** (VLC) in order to create a database of light propagation underwater.

2 **research papers** and given **formal presentations** on our research

- Photorealistic Simulations For Underwater Computer Vision (Use simulation to create training set for AI in underwater environments) (publication in process)
- Experience: A GPU-based testbed for UnderwaterVisible Light Communication (Current work in progress)

Efficiently designed experiments (software and hardware) and scheduled team collaboration

TechCorp (Atlanta, GA)— *Instructor*

Principle Investigator: Tene Davis, Ph.D.

June 2021 - July 2021

Provided education in the field of STEM and Programming in schools/neighborhoods that lack STEM in curriculum **among underrepresented minorities** in STEM

- Created lesson plans that covered topics in a fun and engaging way

GSMST (Lawrenceville, GA)— *App Development Internship*

Principle Investigator: Laura Gray

Sept 2019 - April 2020

- Used Andriod Studios, **Java**, Databases, and Processing
- Improved efficiency in competitive robotics teams by creating an app to organize scouting opponents

Dynemac (Snellville, GA)— *Hardware Engineering Internship*

June 2018 - July 2018

Conducted hardware tests of components and systems to evaluate performance and identify concerns

Executed diagnostics, troubleshooting, and evaluations on Macs and PCs

Skills

Programming: **Java, Python, C, C++**, **SQL**, MatLab, Processing, Assembly, Arduino, Git, Android Studio

Manufacturing: **3D printing**, CNC, Blender, Inventor**, Fusion 360**

Project management: Scheduling, prompt communication, event planning

Basics: technical writing, presentations/public speaking, Excel, Fast and motivated learner

Video editing: Premiere Pro, DaVinci Resolve

Hobbies/Projects

Processing: Created multiple animations, simulations, and artistic live wallpapers for androids using processing

3D Printing - Designed and printed many parts for projects, printed a 10-foot sword as a large project

Video production/editing - Used Premiere Pro and DaVinci Resolve

Robotics - Did competitive robotics for 6 years, Part of VEX, FTC, and FLL, **team leader of 2 teams**.