KARUN **KANDA**

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https://github.com/KKanda900/KarunKanda

EDUCATION

B.S. in Computer Science | Rutgers University – New Brunswick

GPA: 3.0 EXPECTED GRAD: MAY 2022

Relevant Coursework: Data Structures, Computer Architecture, Principles of Information and Data Management, and Introduction to Discrete 1 and 2.

Extracurriculars: Rutgers IEEE Robotics Division Club (Lead Programmer), Rutgers Mobile App Development Club.

EXPERIENCE

Research Software Engineer | Cyber-Physical Systems Laboratory

JUNE 2019 – PRESENT

- Responsible for the software end of an underwater submarine used for research. Created Python scripts to complete the necessary tasks for the project such as GPS movement.
- Worked on creating real-time efficient programs that run on low-end hardware such as a Raspberry Pi with lower CPU power and memory space.

PROJECTS/RESEARCH WORK

Pick My Wardrobe

- A collaborative project done in HackRU, a competitive programming competition, based on Google Cloud object detection API and weather API to choose your outfit based on weather conditions in your country and clothing you own.

PassSafe (Based on RSA algorithm)

- An encryption/decryption algorithm-based application meant to send or receive passwords safely via the internet and keep it protected from hackers.

LICOT: Litter-Information-Centric Ocean of Things (Research Paper)

- Coauthored a paper based on litter in the ocean and how robotics and underwater acoustics can work together to assist in managing Ocean waste as a whole.

SKILLS

Languages: Java, Python, MongoDB, SQL, NoSQL, C++, C, HTML, CSS, JavaScript, and MATLAB.
Frameworks: OpenCV, Android Development, PyWorks, TensorFlow, Google Web Toolkit
Knowledge in: Amazon Web Services, Assembly, Machine Learning, AI, Deep Learning and Computer Vision, and Data Structures

ACHIEVEMENTS

2019 IEEE ComSoc Competition (1st) - First place against 51 submissions around the world.
2019-2020 Vex Worlds (15th) – Placed 15th in the Vex Robotics competition with 45 teams competing from all over the world.