

# Karun Kanda

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## EDUCATION

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### Rutgers University- New Brunswick

May 2022

B. S. - Computer Science (GPA: 3.347)

Relevant Coursework: Data Structures, Algorithms, Introduction to A.I., Data Science, Principles of Information and Data Management, Internet Technology, Software Methodology, Systems Programming and Robotics

Extracurriculars: Rutgers IEEE VexU Division (Programming Lead), Rutgers Robotics (Programmer)

## WORK EXPERIENCE

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### Cyber-Physical Systems Laboratory

June 2019 - Present

Research Software Engineer (Part-time)

Piscataway, NJ

- Worked on the software end of the laboratory research submarine robot creating python scripts to complete the necessary tasks for the research project.
- Worked on creating an IoT setup between multiple nodes (multiple Raspberry Pis, Buoys, etc) that can connect to communicate information to each other in real-time.
- Designed and developed a model of the common types of pollution in water to be used on unknown objects in the water to classify the pollution type.

## PROJECTS

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### U.W. Pollution Detector

- A custom object detector that has the capabilities to detect any type of pollution in any body of water and can work on any machine. Designed for research purposes.
- Built using Python, TensorFlow, Bash, OpenCV and Python's GUI library.

### Charlie AI

- An artificial intelligence designed to help people that need a friend to talk to on a daily basis and can act like their personal therapist/companion/friend.
- Built using Python, PyGame, NLTK (Python Natural Language Toolkit) and Python's Speech Recognition API.

### PassApp

- A password manager application that is designed to store/generate passwords and send passwords to friends or family through RSA encryption and decryption algorithm.
- Built using JavaScript and ElectronJS.

## SKILLS

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**Languages:** Java, Python, C/C++, Rust, HTML, CSS, JavaScript and MatLab.

**Frameworks:** MongoDB, SQL-mysql, Tensorflow, OpenCV, ElectronJS, ReactJS, and Flutter.

**Tools:** AWS Development, Google API, Linux, Embedded Linux, Git, PyQt designer.

## AWARDS

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### IEEE ComSoc 2019 - 1<sup>st</sup>

A global research competition that in a team of four we had to present an idea to help the environment.

### IEEE Vex U Worlds 2020 – 15th

A robotics competition between schools from all around the globe that earned their position to participate between the best schools.



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GitHub Pages /Interactive-Resume



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