

Kandasamy Chokkalingam

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Education

University of Maryland 4.0 GPA

Expected Graduation May 2024

Bachelor's of Science in Computer Science and Applied Mathematics, Honors College

Relevant Courses: Object Oriented Programming II, Discrete Structures, Introduction to Computer Systems

Skills

Programming: Proficient in Python, Java, C, Bash and JavaScript. Experience in Haskell, C++, SQL, Ruby

Technologies: Angular, ReactJS, Pendo, PyTorch, Pandas, Numpy, Flask, ADO, Git, ROS, and Linux

Experience

Software Engineering Intern @ Thomson Reuters Minneapolis, MN

May 2022 – Present

- Debugging a 25+ years old Java codebase to solve a CIAM login security issue
- Researching and independently producing solutions to assigned tasks in large Git/TFVC repositories
- Implementing custom JS protocol to migrate analytics' data for 20,000+ users on the fly

Research Internship @ University of Maryland College Park, MD

June 2020 – August 2020

- Researched the use of reinforcement learning with Ramsey Games under Dr. William Gasarch
 - Implemented reinforcement learning algorithms in Python with PyTorch
 - Worked with a team to study the use of reinforcement learning in other game variants
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Personal Projects

Scouting Data Ingest Poolesville, MD

November 2020 – January 2022

- Designed and engineered a solution to ingest, correlate and analyze robotics data from multiple sources
- Constructed a Python backend with Pandas and Numpy and a web app interface using Flask and Vue.js
- Developed a REST API to interface a web app with a MySQL database hosted with AWS
- Deployed backend to an AWS Ubuntu machine using NGINX as a reverse proxy

HopHacks Hackathon College Park, MD

September 2021

- Collaborated with two team members to create an energy usage and impact comparison tool in 36 hours
 - Created and developed a ReactJS web app with Bootstrap survey form
 - Helped to test and develop a data-processing backend with Flask query API
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Leadership

Bitcamp College Park, MD

October 2021 – Present

- Leading 10+ member logistics team for one of the largest hackathons on the East Coast

Robotics @ Maryland College Park, MD

October 2021 – March 2022

- Refined image processing pipeline to automatically label and classify images using OpenCV
- Used Python and Gazebo to automatically collect simulated test images for classification

National Cyber Scholarship Competition Poolesville, MD

January 2021 – May 2021

- Solved various cybersecurity, web, binary, and cryptography problems using Python and JS
- Used various UNIX/Linux tools in order to investigate and solve problems

FIRST Robotics Club Poolesville, MD

September 2017 – June 2021

- Led 50+ person team for 3 years in various roles ranging from lead to captain
 - Created software to control a holonomic drive base and other external subsystems on a robot
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Awards

President's Scholar from the University of Maryland

2021 – Present

National Cyber Scholar from the National Cyber Scholarship Foundation

2021

National Merit Scholar from the National Merit Scholarship Program

2021