

# Kandasamy Chokkalingam

(301) 529-9158 | [kchoks@umd.edu](mailto:kchoks@umd.edu) | [www.linkedin.com/in/kandasamyc](https://www.linkedin.com/in/kandasamyc) | Clarksburg MD

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## Education

**University of Maryland** 4.0 GPA

Expected Graduation May 2024

B.S. in Computer Science, B.S. in Applied Mathematics, Honors College, President's Scholar

Relevant Courses: Introduction to Computer Systems, Algorithms, Advanced Data Structures, Introduction to Compilers

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## Skills

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

**Technologies:** Ansible, Jenkins, Docker, Grafana, k6, ReactJS, Pendo, PyTorch, Numpy, Flask, Git, and Linux

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## Experience

**Research Assistant @ University of Maryland** College Park, MD

August 2023 – Present

- Developing modular decision assistance software with commercial and research applications
- Researching scalable, effective decision-making using LLMs for facilitation and design thinking strategies
- Expanding functionality through the addition of various front-end React meeting components

**Software Developer Intern @ Verisign** Reston, VA

May 2023 – August 2023

- Implemented flexible and adaptable performance tests in JS with Grafana k6
- Engineered continuous monitoring through a Jenkins CI/CID pipeline with Ansible and Docker
- Created dynamic visualizations in Grafana through exporting data into InfluxDB

**Software Engineering Intern @ Thomson Reuters** Minneapolis, MN

May 2022 – May 2023

- Debugged a 25+ years old Java codebase to solve a CIAM login security issue
- Developed custom JS functionality to migrate analytics' data for 20,000+ users in real time
- Led large-scale API migration for critical feature and produced Java, and JSP code to support it

**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 models like Q-Learning and Graph Neural Networks with PyTorch
  - Collaborated with a team to study the use of reinforcement learning in other game variants
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## Personal Projects

**Homelab** College Park, MD

August 2022 – Present

- Self-hosted an Ubuntu server with systemctl services and docker containers behind NGINX
- Configured custom P2P VPN and DNS setup using pi-hole and Tailscale for privacy and security

**Scouting Data Ingest** Poolesville, MD

November 2020 – January 2022

- Designed and engineered a solution to ingest and analyze robotics data from multiple sources
  - Constructed a Python backend API with Pandas/Numpy and a web interface using Vue.js
  - Deployed to an AWS Ubuntu machine using NGINX as a reverse proxy with MySQL on RDS
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## Experience & Leadership

**Planetterp** College Park, MD

March 2023 – Present

- Developer on 3-person team for professor and course review website used by 30,000+ people
- Debugged and produced solutions to various issues in a large Django application

**Bitcamp** College Park, MD

October 2021 – Present

- Leading 80 person team to organize one of the largest hackathons on the East Coast, lasting 36 hours
- Led 12 person subteam in charge of food, travel, utilities, and personnel for 1,000+ attendees
- Coordinated goals, tasks and logistics with various vendors and stakeholders to manage over \$150,000

**Robotics @ Maryland** College Park, MD

October 2021 – March 2022

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