

Arvind Ramaswami

Johns Creek, GA | 404-458-1072 | saramaswami@gmail.com

LinkedIn: <http://linkedin.com/in/arvind-ramaswami>

GitHub: <https://github.com/arvindr9>

HackerRank: https://www.hackerrank.com/arvind_r

Website: <https://arvindr9.github.io/>

Education

Georgia Tech (Fall 2017 – present): Undergraduate Computer Science major. Threads: Intelligence and Theory

Skills

Programming languages: Java, Python, C++, Javascript

Courses taken: Machine Learning (Coursera), Deep Learning Specialization (Coursera)

Fall 2017: OOP, Foundations of Mathematical Proofs, Applied Combinatorics

Spring 2018: Data Structures and Algorithms, Data Input and Manipulation, Algorithms Honors, Combinatorial Analysis

Fall 2018: Intro to AI, Machine Learning, Computer Organization and Programming, Objects & Design

Experience

Machine Learning Researcher – Interactive Optimization and Learning (IOL) Lab Jan 2018 – Present

Working on adversarial learning under the advisement of Professor Sebastian Pokutta. Focusing on showing that random forests are vulnerable to adversarial examples and training random forests to be more robust to adversarial examples.

Microsoft Student Partner (MSP) – Microsoft

Sept 2017 – Present

Teaching technical topics such as Microsoft cloud technologies and Machine Learning and soft skills such as resume building through workshops at Georgia Tech. Reached over 150 students in total.

Workshops Coordinator – Big-O Theory Club

Aug 2018 – Present

Running sessions for Georgia Tech students that involve complex problems from mathematics and theoretical computer science. Also giving various talks on areas like Computer Vision and Tensorflow.

Projects

Catan AI

Sept 2018 – Present

Using a Monte Carlo tree search algorithm with heuristics to create a Catan-playing AI program. This project is being done as part of the Georgia Tech Agency (AI Club).

Project Lead – Data Science at GT

Oct 2017 – Dec 2017

Led a team in the Kaggle project *WDSM - KKBox Churn Prediction Challenge* to forecast whether users of a music streaming service will stop their subscription. Used an SVM in Tensorflow with a Gaussian kernel.

Home Depot Deep Learning Challenge

Nov 2017

Created a ConvNet using Tensorflow to classify images of shopping products.

WeLocate

Oct 2017

Built a website that allows users to choose a location on a map to find where to open their business based on a dataset of existing buildings from Yelp's API and results from Amazon's AWS Machine Learning. Received awards for the Most Disruptive Hack and the Best Financial Hack.

Other Skills/Interests

Competitive Programming: Solving complex algorithmic problems as a member of the GT Programming Team. Participated in the 2017 ACM ICPC Southeast Regional. Qualified for the 2018 ITA Tech Challenge National Finals for being in the Top 50 out of over 600 competitors.

Mathematics: Represented Georgia ARML in 2015 and 2017. Experienced in combinatorics and number theory. Developed problem solving skills from math contests.

Violin: Member of the Atlanta Symphony Youth Orchestra (Fall 2016 – Spring 17), Georgia All-State Orchestra (2015, 16, 17), Georgia Tech Symphony Orchestra (Fall 2017 – Present). Currently learning conducting under Dr. Chaowen Ting.

Spoken Languages: English, Spanish, Tamil, Chinese (learning), Sanskrit (learning)
