Arvind Ramaswami
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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

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Skills

Machine Learning technologies: Tensorflow, Keras, Azure ML Studio
Programming languages: Java, Python, C++, Javascript
Web technologies: HTML5, CSS3, JS, Node, Express, React
Courses taken: Machine Learning (Coursera), Deep Learning Specialization (Coursera)
Fall 2017: OOP, Foundations of Mathematical Proofs, Applied Combinatorics
Spring 2018: Data Struct and Alg, Data Input and Manip, Algorithms Honors, Combinatorial Analysis
Fall 2018: Intro to AI, Machine Learning, Computer Organiz and Program, Objects & Design
Competitive Programming: Involves solving complex algorithmic problems. Member of the GT Programming Team. Participated in the 2017 ACM ICPC Southeast Regional. Qualified for the 2018 ITA Tech Challenge Finals. Currently training under the supervision of Mostafa Saad (2011 ICPC World Finalist)

Experience

Workshops Coordinator — Big-O Theory Club **Aug 2018 — Present**
Running sessions that involve complex problems from mathematics and theoretical computer science. Also gave various talks on areas like Computer Vision and Tensorflow.

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. Currently writing a paper for the AISTATS 2019 Conference.

Microsoft Student Partner (MSP) — Microsoft **Sept 2017 — Present**
Teaching technical topics such as Microsoft cloud technologies and Machine Learning through workshops at Georgia Tech.

Project Lead — Data Science at GT **Oct 2017 — Dec 2017**
Lead a team in the Kaggle project *WDSM - KKBox Churn Prediction Challenge* to forecast whether users of a music streaming service will stop their subscription. https://github.com/arvindr9/kkbox-churn-prediction

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Projects

Catan AI **Sept 2018 - Present**
Using a Monte Carlo tree search algorithm with heuristics to find the optimal Catan-playing AI. This project is being done a part of the Georgia Tech Agency (AI Club).

Home Depot Deep Learning Challenge **Nov 2017**
Created a ConvNet using Tensorflow overnight to classify images of shopping products.
https://github.com/arvindr9/Home-Depot-Challenge

WeLocate **October 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. Used Node.js for the backend and for calling the Python scripts to obtain and train the datasets. Received awards for the Most Disruptive Hack and the Best Financial Hack. https://devpost.com/software/welocate-7mjhra

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Other Skills/Interests

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