

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

Courses taken:

Machine Learning - Techniques in supervised, unsupervised and reinforcement learning. Assignments consisted of four projects, each of which involved running experiments and writing ~10 pages of analysis.

Data Input and Manipulation - Used Python libraries like Numpy and Pandas and tools like SQL.

Algorithms Honors - Topics include divide-and-conquer, graph algorithms, flows, linear programming, NP-completeness.

Skills/Certifications

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

Coursera Deep Learning Specialization: Neural Networks and Deep Learning, Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization, Structuring Machine Learning Projects, Convolutional Neural Networks, Sequence Models



Experience

Interactive Optimization and Learning (IOL) Lab

Jan 2018 – Present

Machine Learning Researcher

With the guidance of Professor Sebastian Pokutta, engineering adversarial attacks on random forest classifiers and developing methods to make them more resilient

Microsoft

Sept 2017 – Present

Microsoft Student Partner

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.

Big-O Theory Club

Aug 2018 – Present

Workshops Coordinator

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.

Data Science at GT

Oct 2017 – Dec 2017

Project Lead

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.

Projects

DonationTracker

Aug 2018 - Dec 2018

Created an Android application in a team of five that allows people in need in Atlanta to locate places to get aid and receive donations. Used SQLite to persist profile information and wrote extensive JUnit tests.

WeLocate

Oct 2017

Built a website that uses Yelp's API and AWS Machine Learning to find where to open their business. Received first-place awards at VandyHacks for the Most Disruptive Hack and the Best Financial Hack.

Honors

Competitive Programming: 2018 ITA Tech Challenge National Finalist (in the top 50)

Mathematics: Represented Georgia ARML in 2015 and 2017.

Violin: Previously a member of the Atlanta Symphony Youth Orchestra, Georgia All-State Orchestra. Currently playing in the Georgia Tech Symphony Orchestra. Also learning conducting under Dr. Chaowen Ting

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