# Bharat Srirangam

US Citizen • (317)902–7190 • bharatsrirangam@gatech.edu • Personal Website/Github: bharatsrirangam.github.io

**Education**

**GEORGIA INSTITUTE OF TECHNOLOGY Atlanta, GA**

**Bachelor of Science in Computer Science (Expected Graduation May 2020)**

**Minor in Mathematics** **GPA: 3.95/4.0**

* **Threads**: Intelligence, Modeling and Simulation

**Relevant Coursework:** Data Structures and Algorithms • Honors Advanced Algorithms • (Graduate) Computer Vision • Advanced Linear Algebra • Systems and Networks • Probability and Statistics • Machine Learning • Objects and Design

**Experience**

**Amazon.com Inc. Seattle, WA**

***Software Development Engineering Intern – Big Data Technologies (BDT)*** *May 2018 – August 2018*

I built an application for an internal service that sets preferences on website searches - Providing the groundwork for future feature development in the next 5 years, Reducing search latency, and Augmenting the user experience on the website.

* Created an End to End Serverless solution with Native AWS to reduce the search time for users of an internal service
* Implemented a RestfulApi service w/ data analysis features - complete with JUnits/documentation to allow for future work
* Analyzed API request logs with the Hierarchal Clustering/OPTICS clustering algorithms to predict user behavior
* Acquired strong communication skills from daily SCRUM meetings with my mentor/manager and demos with my team

**Georgia Tech Healthcare Robotics Lab (Institute for Robotics and Intelligent Machines) Atlanta, GA**

***Machine Learning Research Assistant*** *December 2017 – Present*

Currently researching the potential benefits of Generative Adversarial Neural Networks(GANs).

* Researching a way to develop complete training data sets for supervised deep learning algorithms through GANs
* Experimenting on how semi-supervised vs pure supervised learning affects GAN’s generative/discriminative networks
* Developing with Technologies/Libraries such as NumPy, Pytorch, Keras/Tensorflow and other in-Lab libraries

**GT College of Computing: *Computer Organization and Programming (CS2110) Teaching Assistant* Atlanta, GA**

I am currently a teaching assistant for CS2110. My tasks include but are not limited to: *August 2018 - Present*

* Leading/Preparing recitations, Creating/Grading homework assignments and assessments, and Conducting office hours

**Georgia Tech College of Computing: *Computer Science Tutor*** *December 2017 – May 2018* **| Atlanta, GA**

I tutored COC students in subjects such as Data Structures and Algorithms and Computer Organization and Programming

**Actifio Inc. (Copy Data Management Company) Waltham, MA**

***Software Engineering Intern*** *June 2017 – August 2017*

Customers use a company developed application to retrieve, manipulate, and review their current storage information.

* Developed additional requested features as part of our company’s Restful API (called on by the UI team) with Java
* Created/wrote several tests using the TestNg framework and refactored major parts of the application’s UI code base
* Learned skills in developer tools such as ANT, Hibernate, PostgreSQL and basic Restful APIs

**Skills**

**Computer: (Languages) Proficient:** Java, C **| Medium:** Python, SQL, HTML,Matlab **|** **Knowledgeable:** C++, JavaScript

**Developer Tools:** Native AWS Suite, Git, JUnit/Mockito, Gradle, Tensorflow/Keras, Json/GSON, Pandas, SciPy, RestApis

**College Activities:** Bits of Good **|**The Agency **|** The Makery **|** Georgia Tech Crew Club (Rowing)

**Class Projects/Hackathons/Extracurricular Projects**

**[Hackathon Project] HackGT5: LocationScores** *October 2018*

LocationScores is a consulting application that won 1st place for the “Best Use of ESRI’s API” at GT’s 5th Hackathon.

* Correlated wealth distribution, employment rate, etc. with existing store performances to find new optimal store locations
* Developed using Python, Tensorflow, Keras and Pythons Requests library for efficient data collection and analysis
* Created and Trained an original neural network model to predict the performance of a store based on demographic data

**[Club Project] ~Bits of Good~ drawchange: Global Non-Profit – Web Application** *January – May 2018*

Drawchange helps bring art and provide relief to impoverished children who do not have access to those luxuries.

* Creating, currently, a volunteer portal so that Drawchange may better manage events and consolidate paperwork
* Developing using the MERN stack(MongoDB, Express, React.js, Node.js) for front/back end parts of the portal