

Bharat Srirangam

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

Education

GEORGIA INSTITUTE OF TECHNOLOGY

Bachelor of Science in Computer Science

Minor in Mathematics

Atlanta, GA

(Expected Graduation May 2020)

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 Hierarchical 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 Python's 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