

# Bharat Srirangam

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**Objective:** To obtain a Data Scientist/Engineering or Software Developer internship during the summer of 2018

## Education

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**GEORGIA INSTITUTE OF TECHNOLOGY**

**Atlanta, GA**

**Bachelor of Science in Computer Science**

**(Expected Graduation May 2020)**

**Minor in Mathematics**

**GPA: 3.92/4.0**

- Threads: Intelligence, Information Internetworks, Devices

**Relevant Coursework:** Data Structures and Algorithms • Honors Discrete Math • Objects and Design • Introduction to AI • Systems and Networks • Honors Advanced Algorithms • Probability and Statistics • Machine Learning for Trading

## Experience

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

**Atlanta, GA**

**Machine Learning Research Assistant**

*December 2017 – Present*

I am currently researching the potential benefits of Generative Adversarial Neural Networks(GANS).

- Researching a way developing complete training data sets for supervised deep learning algorithms through GAN's
- Experimenting on how semi-supervised vs pure supervised learning affects GAN's generative/discriminative networks
- Technologies/Libraries used include Python, NumPy, Pytorch, Keras/Tensorflow and other in Lab developed libraries

**Actifio Inc.**

**Waltham, MA**

**Software Engineering Intern**

*June 2017 – August 2017*

Actifio is a technology firm designed to provide Data Management as a service. Customers use a company developed application to retrieve, manipulate, and review their current storage information.

- Developed parts of our company's Restful API with Java (called on by the UI) to add customer requested features
- Created/wrote several tests using TestNg and refactored major parts of the application's UI code base
- Learned skills in developer tools such as ANT, Hibernate, PostgreSQL and the concept of Rest APIs

**Georgia Tech College of Computing: Computer Science Tutor**

*December 2017 – Present*

I currently tutor students of the College of Computing on several different subjects.

- Teach core Computer Science courses such as Discrete Math(CS2050) • Object Oriented Programming(CS1331) • Data Structures and Algorithms(CS1332) • Computer Systems and Organization(CS2110)

**Einstein's Workshop**

**Burlington, MA**

**Mentor/Teacher's Assistant/Event-Coordinator**

*November 2011 – June 2016*

The Workshop is a makerspace made to inspire innovators and creators by stimulating STEM interest through local classes.

- Managed the questions of customers/children and Taught children in basic skills of Scratch, NXT Design/Software, etc.
- Lead and Created STEM day events that focused on basic analytical skills and complex logic skills

## Skills

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

**Developer Tools:** Git,JDBC, TestNg, Gradle,Java Reflection,Bootstrap,Json/GSON,XML, Android Dev, Pandas, ML

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

## Extracurricular Projects/Activities

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**Personal Website: [bharatsrirangam.github.io](http://bharatsrirangam.github.io) – Website**

- Developed personal website with HTML5/CSS and added reactive display and interaction using Javascript/JQuery

**CourseTree (CT): Course Planning Application – Web Application**

It is often hard for students to choose the appropriate courses to take. CT helps students easily plan their class schedules.

- Created unique data structures for a graph implementation to store the course hierarchy in an accessible/efficient way
- Developed a small Java Prototype with a working JSON document parser that implements the GSON library

## Class Projects/Hackathons

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**Object Oriented Design (CS2340): BoRats.Inc**

BoRats.Inc is a mobile android application made in our CS2340 class that keeps track of rat sightings throughout NYC.

- Became Team Leader and assigned work appropriately. I held us accountable and solved disputes as necessary.
- Implemented Google's Firebase for multiuser backend capability and tested using JUnit for quality and functionality
- Created in Java using Android Studio and Developed using Agile Principles and Values/Scrum