# Bharat Srirangam

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**Education**

**GEORGIA INSTITUTE OF TECHNOLOGY Atlanta, GA**

**Bachelor of Science in Computer Science (Expected Graduation May 2019)**

**Minor in Mathematics**

**GPA: 3.92/4.0**

* Threads: Intelligence, Devices, Information Internetworks

**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**

**Georgia Tech Healthcare Robotics Lab (**[**Institute for Robotics and Intelligent Machines**](http://robotics.gatech.edu/)**) 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

**Georgia Tech College of Computing: *Computer Science Tutor* Atlanta, GA**

I currently tutor students of the College of Computing in several different subjects such as *December 2017 – Present*

* Discrete Math, Object Oriented Programming, Data Structures and Algorithms, Computer Systems and Organization

**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

**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 the basic skills of Scratch, NXT Design/Software, etc.
* Led and Created STEM day events that focused on basic analytical skills and fundamental logic skills

**Skills**

**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)

**Class Projects/Hackathons/Extracurricular Projects**

**[Class Project] Object and Design (CS2340): BoRats.Inc**

BoRats.Inc is a mobile android application made in our Objects and Design class that keeps track of rat sightings in NYC.

* Was elected Team Leader. I assigned work appropriately, held us accountable and solved disputes when necessary
* Implemented Google Firebase in the app for backend multiuser capability and tested quality with the JUnit framework
* Created in Android Studio using Java and Developed with Agile Principles and Values/Scrum

**[Club Project] ~Bits of Good~ drawchange: Global Non-Profit**

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
* Implementing the principles of Agile and proper code design in our product – using Scrum for project development

**[Personal Project] CourseTree (CT): Course Planning Application – Web Application**

It is often hard for students to choose the appropriate courses to take. CT helps them easily plan their yearly course schedule.

* Created data structures for a unique 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