

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)

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