Bharat Srirangam

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Education

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, 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