

# Bharat Srirangam

US Citizen

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## EDUCATION

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### Georgia Institute of Technology

*Bachelor of Science in Computer Science*

Threads: Intelligence, Theory

May 2020

Atlanta, GA

GPA: 3.97/4.0

**Coursework:** ▶ Probability/Statistics ▶ Advanced Linear Algebra ▶ Machine Learning ▶ Natural Language  
▶ (Graduate) Computer Vision ▶ Honors Advanced Algorithms (1 & 2) ▶ Data Structures

## EXPERIENCE

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### Woot.com Inc. (Core Technologies) - an Amazon Company

Seattle, WA

*Software Development Engineer I*

May 2019 – August 2019 (Intern) | May 2020 - Present

I built a service for the marketing team to create benefits for customers based on different provided qualification metrics so that special deals could be sent to and applied to any registered customer through email or at checkout on Woot.com.

- Created automated benefits that could provide savings for potentially every customer of Woot (~9 million customers)
- Developed an automated End to End Serverless benefits service with Native AWS technologies in a .NET environment
- Designed/Implemented RestfulAPI endpoints in legacy/modern services that provide a foundation for future work
- Acquired strong technical communication skills and a business acumen from weekly design reviews and retrospectives

### Amazon.com Inc. (Big Data Technologies)

Seattle, WA

*Software Development Engineering Intern*

May 2018 – August 2018

- Built a service that set preferences on internal data searches, reduced search latency, and improved user experience
- 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 with data analysis features - complete with JUnits/documentation for future work
- Analyzed API request logs with the Hierarchal Clustering/OPTICS clustering algorithms to predict user behavior

### GT Healthcare Robotics Lab (Institute for Robotics and Intelligent Machines)

Atlanta, GA

*Machine Learning Research Assistant*

December 2017 – May 2020

- Researching a way to develop complete training data sets for supervised deep learning algorithms through GANs
- Experimented with manipulation and measurement of different objects through PR2 robot scene segmentation
- Published a paper, "Multimodal Material Classification for Robots Using Spectroscopy and High Resolution Texture Imaging", at the International Conference on Intelligent Robots and Systems (IROS)

### GT College of Computing: Computer Organization and Programming (CS2110) TA

Atlanta, GA

Teaching Assistant/Quiz Master

August 2018 – January 2020

- Led/Prepared recitations, Created/Graded quizzes and assignments, and Conducted office hours for 200+ students

## SKILLS

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**Languages (Proficient):** Java, C, Python | **(Knowledgeable):** C#, SQL, HTML, Matlab, R, JavaScript

**DevTools** Native AWS Suite, JUnit/Mockito, .NET, Tensorflow/Keras, GSON, Pandas, SciPy, RestAPIs

## CLASS PROJECTS/HACKATHONS/EXTRACURRICULAR PROJECTS

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### [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 store performances to find new optimal store locations
- Developed an Tensorflow/Keras neural network to predict the performance of a store based on demographic data

### [Personal Project] FBMessengerEngine: Local Application

August 2019 - Present

This Facebook Messenger Engine, Insight, does basic analytics on the chats of your Facebook account. If you've ever struggled to gather specific information on your chats, now that process is made easier with my application.

- Analyzes FB chat history to get information such as message count, conversation count, and specific mentions
- Conducted NLP Topic Analysis on conversations to create topic lists using Libraries such as gensim and nltk