

## SRINIDHI PALWAYI

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<https://github.com/SrinidhiPalwayi>

### EDUCATION

#### GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing

Atlanta, Georgia

##### Bachelor of Science in Computer Science

December 2019

GPA: 3.88

- Minor in Computing and Business through the Denning Technology & Management Program
- Threads: Info-internetworks and Modeling and Simulation
- Georgia Tech Lorraine Study Abroad
- Relevant Coursework: Data Structures and Algorithms, Honors Algorithms, Introduction to Artificial Intelligence, Stanford Machine Learning Coursera

May – August 2017

### SKILLS/INTERESTS

**Technical:** Python, Java, C, Swift, Matlab, Arduino-C, Assembly, C, SQL

**Technologies:** GitHub, TensorFlow, Scikit-learn, Spark, Hadoop, Kafka, StreamSets, Keras, Numpy, Pandas

### EXPERIENCE

#### IBM

Armonk, NY

##### Software Engineering Intern/ CIO

April 2018 – Present

- Analyzing DNS queries to find trends, like time series of users making requests at a given time, using Spark
- Implemented a LSTM network to flag malicious requests, especially those created by DGAs, using Keras
- Created help desk ticket data classification using K-means clustering and Bag-of-Words

### RESEARCH

#### GEORGIA INSTITUTE OF TECHNOLOGY

Atlanta, Georgia

##### Undergraduate Researcher/ GT Bionics Lab

January 2017 – May 2018

- Implemented SVMs with Scikit-learn and neural network with Tensorflow to identify rat behavior
- Created convolutional neural networks on top of VGG16 to mitigate the lack of training examples problem

##### Undergraduate Researcher/ Sun Lab

January 2018 – Present

- Creating mapping between different diagnosis and medication codes, such as ICD9 and CCS, using pandas
- Citi certified to work on research regarding to healthcare and human research as required by IRB

### PROJECTS

#### Stop the Sting/ Grand Challenges

August 2016 – Present

- Creating a solution to give people with chemotherapy induced peripheral neuropathy increased mobility, using Arduinos attached to pressure sensors inside a shoe insole and emitting the pressure signal to a vibration motor in an armband
- Semifinalists in Georgia Tech Inventure Prize, the nation's largest undergraduate invention competition
- Working with Dr. Mark Lyle at Emory Physical Therapy to test device and explore possibilities with stroke patients

#### Crowd Sourced Water

February-April 2017

<https://github.com/SrinidhiPalwayi/CrowdSourcedWater>

- Crowd sourced water reporting Android app allows multiple users to report on the quality and location of the water using the Google Maps API

#### "Treat Yo Cat"/ Hackathon Project at HackGSU

November 2016

<https://github.com/SrinidhiPalwayi/TreatYoCat>

- Won 3<sup>rd</sup> place for iPhone app that connected to an Arduino over wifi to open a servo and dispense a cat treat when a button is pressed

### LEADERSHIP

#### Organizer in Operations and Tech Team/ HackGT

September 2017- Present

- Organizer of Georgia Tech's premier collegiate hackathon with over 1,000 students attending each fall
- Recruited and interviewed volunteers to manage the hackathon

#### Curriculum Director / The Girl Code Project

January 2017- Present

- Wrote and taught curriculum in GameMaker Studio to introduce girls between 7<sup>th</sup> and 10<sup>th</sup> grade to programming