SRINIDHI PALWAYI

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github.com/SrinidhiPalwayi

EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY, College of Computing — **Atlanta, Georgia**
Bachelor of Science in Computer Science — *December 2019*
- Minor in Computing and Business through the Denning Technology & Management Program — GPA: 3.88
- Concentration: Intelligence and Modeling and Simulation
- Relevant Coursework: Honors Algorithms, Data Structures, Systems and Networks, Introduction to Artificial Intelligence, Introduction to Computer Vision, Stanford Machine Learning Coursera

EXPERIENCE

IBM — **Armonk, NY**
Software Engineering Intern/ CIO — *April – October 2018*
- Using **Streamsets** to stream DNS data to **Kafka**, and use **Spark** do real-time and batch analysis on the DNS queries
- Unified the data collection and processing, which was previously analyzed from separate sources security specialists
- Implementing a LSTM network to flag malicious requests, especially those created by DGAs, using **Keras**
- Creating help desk ticket data classification using K-means clustering and Bag-of-Words with **Scikit-learn** to save help desk agents time in assigning issues.

RESEARCH

GEORGIA INSTITUTE OF TECHNOLOGY — **Atlanta, Georgia**
Undergraduate Researcher/ Sun Lab — *January 2018 – Present*
- Anonymizing patient data to create predictive models for kidney transplant rehospitalization using **Scikit-learn**
- Creating mapping between different diagnosis and medication codes, such as ICD9 and CCS, using **Pandas**

Undergraduate Researcher/ GT Bionics Lab — *January 2017 – May 2018*
- Increased researcher productivity by automating rat behavior identification, which was previously done manually
- Developed SVM with **Scikit-learn** and neural network with **Tensorflow** to label rat behavior
- Generated convolutional neural network on top of VGG16 to mitigate the lack of training examples problem
- Created a pipeline to separate video into individual images and apply pre-processing steps using **OpenCV**

PROJECTS

Stop the Sting/ Grand Challenges — *August 2016 – September 2018*
- Created a sensory substitution device using **Arduinos**, pressure sensors, vibration motors, and Bluetooth modules to give people with chemotherapy induced peripheral neuropathy increased mobility
- **Semifinalists** in Georgia Tech Inventure Prize, the nation's largest undergraduate invention competition
- Worked with Emory Physical Therapy to test device and explore possibilities with stroke patients

"Treat Yo Cat"/ Hackathon Project at HackGSU — *November 2016*
https://github.com/SrinidhiPalwayi/TreatYoCat
- Won 3rd place for **iPhone** app that connected to an Arduino over wifi to open a servo and dispense a cat treat with a button press

SKILLS

Programming: Python, Scala, Java, C, Swift, Matlab, Arduino-C, Assembly, SQL
Big Data Ecosystems: Spark, Scikit-learn, Jupyter Notebook, NumPy, Pandas, Kafka, Keras, Tensorflow, Hadoop
Tools: GitHub, StreamSets, MongoDB

LEADERSHIP

Campus Ambassador/ Sequoia Capital — *May 2018 – Present*
- Facilitate the connection between Sequoia and Georgia Tech students by supporting entrepreneurship on campus and connecting technical talent to portfolio companies

Organizer in Operations and Tech Team/ HackGT — *September 2017- Present*
- Recruited and interviewed volunteers to manage Georgia Tech's hackathon with over 1,000 students attendees

Curriculum Director/ The Girl Code Project — *January 2018- Present*
- Wrote and taught curriculum in GameMaker Studio to introduce girls between 7th and 10th grade to programming and engineering careers.