KRIS SATYA

computer science and math student at georgia tech

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experience

Georgia Tech Research Institute

Research Intern | Electro-Optical Systems Lab

May 2019 - Current | Atlanta, GA

- Developed a Python module to convert raw LiDAR data to a 3D point cloud and **added multi-threading for a 2x speed-up** over previous Matlab library.
- **Improved land/water classification of points by 75%** by implementing a K-D tree to spatially partition data. | **Tools: Python, SciPy, NumPy**

Undergraduate Researcher

Georgia Tech Security Lab

Aug. 2018 - April 2019 | Atlanta, GA

- Developed an **Android application** that allows friends to "poke" and notify others of password security and data breaches.
- Integrated **Firebase** for cloud functions, messaging, and realtime database. **Tools: Java, Google Cloud, Express.js**

Machine Learning Intern

Way.com

May 2017 – Aug. 2017 | Fremont, CA

- Prototyped a natural language processing algorithm to classify text based on its "intent" and "entities" based on labeled queries.
- Applied algorithm to **Messenger API** to develop a chatbot for users to purchase products. | **Tools: Python, MySQL**

projects

Georgia Tech Volleyball Spike

Georgia Tech Sports Hackathon

Nov. 2018 - Sept. 2019 | Atlanta, GA

- Built a web analytics tool for the volleyball team to visualize the height and intensity of players' jumps during games.
- Developed an **automated web scraper** to transfer player data to local database. **Tools: Python, Javascript, MySQL**

Georgia Tech Course Tracker

May 2019 | San Jose, CA

- Built a web app to track courses and notify me of seat openings realtime. **Tools: Python, React, Heroku**

Coronary Artery Disease Algorithm

Synopsys Science Fair

Jan. 2017 - April 2017 | San Jose, CA

- Implemented a support vector machine algorithm to classify patients' risks of coronary artery disease based on vitals and ECG data.
- Algorithm out-performed the current standard ECG specificity of 37.5% with a **specificity of 91.8%**. | **Tools: Python, Matlab**

education

BS in Computer Science + Mathematics

Georgia Institute of Technology

Aug. 2018 - May 2022 | Atlanta, GA

- Cum. GPA: 4.0/4.0
- CS Concentrations: Theory and Intelligence
- Coursework: Data Structures and Algorithms, Computer Organization and Programming (IP), Intro to Artificial Intelligence (IP)

organizations

CS Bits of Good | Junior Developer | Current

- Worked with child trauma nonprofit, PACTS.
- Developed a map add-on to the website to display and filter support centers by category. **Tools: Python, React, Flask**

First Tech Challenge | Founder | 2014-2018

- Founded high school robotics team
- Taught Java basics to new members

DECA Business Club | Captain | 2014-2018

- Researched/pitched startup business proposals and lead entrepreneurship lectures

technical skills

Python, Java
React, Git
Javascript, Android Studio, C++
Certification: Coursera Machine Learning

awards

Gold Ranking, USA Computing Olympiad

- Jan. 2018

3rd Award, Synopsys Science Fair

- April 2017

International Finalist (Top 20), DECA

- May 2016

Inspire Award, First Tech Challenge

- March 2015

fun fact - i religiously eat at waffle house once every week and chocolate chip waffles make up 1/10 of my body mass