

# Sahit Chintalapudi

<https://chsahit.github.io>

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I am a second year undergraduate with interests in Robotics and Machine learning looking for an internship in the summer of 2018.

## EDUCATION

### GEORGIA INSTITUTE OF TECHNOLOGY

#### BS IN COMPUTER SCIENCE

Expected May 2020 | Atlanta, GA

Focuses in Theory and Intelligence

GPA: 4.0 / 4.0

## LINKS

Github: [github.com/chsahit](https://github.com/chsahit)

LinkedIn:

[linkedin.com/in/sahit-chintalapudi](https://www.linkedin.com/in/sahit-chintalapudi)

## COURSEWORK

### COMPLETED

Data Structures and Algorithms

Honors Discrete Math for CS

Introduction to Object Oriented

Programming

Linear Algebra

### IN PROGRESS

Honors Probability and Statistics

Introduction to Artificial Intelligence

## SKILLS

### PROGRAMMING

Languages

Java (Advanced) • Python (Advanced)

C/C++ (Moderate) • Lisp (Basic)

x86 Assembly (Basic)

Tools

Linux • ROS (Robot Operating System)

Flask • Vim • Android • SQLite

## AWARDS

Swamphacks 2017-Best use of ClarifAI

Swamphacks 2017-HackHarassment Award

IBM Master the Mainframe 2016 - First 80 finishers of part two

HackRutgers 2015-Best use of SendGrid

## EXPERIENCE

### VIASAT | SOFTWARE ENGINEERING INTERN

May '17-August '17

May 2017 – Jun 2017 | Atlanta, GA

- Worked on an agile team to help execute a proof of concept investigating a new market sector.
- Designed and implemented a full stack application where a Raspberry Pi parses sensor data and loads it into a Message Queue from which it is entered into a Postgres Database via an API we built with python.

## RESEARCH

### ROBOT LEARNING LAB | UNDERGRADUATE RESEARCHER

April 2017 – Present

- Researching path planning mechanisms and how to prove them to be complete or resolution complete
- Implementing batch state estimation on robots with many Degrees of Freedom using ROS

### HUMAN-AUTOMATION SYSTEMS LAB | RESEARCHER

Jan 2017 – May 2017

- gathered data on how to choreograph mobile robots to be more expressive despite being limited by a simple differential drive
- completed the certification to design studies on human interactions with robots.

## PROJECTS

### THE AGENCY (AI RESEARCH CLUB) | SECRETARY

September 2016 – Present

- Working on the "Buzzmobile". A fully autonomous replica of GT's "Rambling Wreck", programmed with ROS and python. My role was integrating gazebo, a simulation engine, with ROS so we could test virtually.
- Wrote a genetic algorithm that optimized the learning rate of a simple Neural Network as an introduction to hyperparameter optimization

### ROBOJACKETS | ROBORACING SOFTWARE LEAD + SOFTWARE INSTRUCTOR

September 2016 – Present

- Implemented an SVM the road in an image with OpenCV
- developed a ROS nodelet that subscribed to incoming camera data and published the regions that were blocked by obstacles.
- Developed the firmware and PD controller which acted as interface between the hardware and the ROS autonomy code
- Tuned the robots vision parameters at the International Autonomous Robot Racing Competition where it won 3rd place.