

# Rishov Sarkar

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## Education

**Georgia Institute of Technology** – Atlanta, GA August 2017–May 2021 (*expected*)

- Current student in Georgia Tech Honors Program, seeking Bachelor of Science in Computer Engineering

**Peachtree Ridge High School** – Suwanee, GA August 2013–May 2017

- GPA: 3.9 of 4.0
- Class rank: 17
- National Merit Finalist
- National AP Scholar
- Outstanding Achievement in Mathematics award

## Experience

**Internship at Crystal** – Duluth, GA January 2017–July 2017

*Production of server systems for processing of broadcast television and internet video*

- Wrote internal knowledgebase articles to facilitate onboarding of new employees
- Wrote automated software tools to make production procedures more efficient

**Internship at Flex** – Norcross, GA June 2014–August 2014, June 2016–August 2016

*Development of smart home Internet-of-Things (IoT) devices*

- Performed quality-assurance testing for the Wink Hub and programmed an automated testing tool
- Programmed C and C++ code for communication with wireless devices via the EnOcean protocol

**Internship at HighPoints Learning** – Duluth, GA June 2013–July 2013

*Development of online mathematics learning program*

- Wrote HTML5, JavaScript, and CSS code to create interactive demos for mathematical concepts

## Skills

**Programming:** Java, Android, iOS, Python, Node.js, C, C++, Git, Wolfram, LaTeX, MATLAB

**Embedded:** BeagleBone Black, Raspberry Pi

**Web design:** HTML5, JavaScript, CSS, WordPress, Flask, Django, Bootstrap, SQL, MongoDB

**OSes (incl. command-line):** Windows, Mac OS X, Ubuntu, Debian, Raspbian

## Projects

**RoboJackets TE Session** October 2016

*With team of two others, presented work in developing machine vision solution for robotics team*

- Presented work in machine vision using OpenCV on Raspberry Pi to identify visual targets autonomously

**HackStart Hackathon** July 2015

*In 24 hours, with team of three others, built web app designed to find the best restaurant for a group of people*

- Written using PHP, HTML5, JavaScript, CSS, Bootstrap, Yelp API
- Won first place at competition

## Leadership

**Programming Lead for the Robo Lions** August 2014–May 2017

*Programming for high school robotics team 1261 for VEX and FRC robotics programs*

- Developed vision tracking systems and autonomous and teleoperated robot programs in Java
- In spring 2017, helped lead FRC team to highest level of competition at world level in team history