

# Amaresh “Ankit” Siva

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## OBJECTIVE

To gain experience in software engineering or data science for Spring or Summer 2019.

## EDUCATION & HONORS

### GEORGIA INSTITUTE OF TECHNOLOGY

#### Bachelor of Science in Computer Science, May 2020

Atlanta, Georgia

August 2016 – Present

- Threads: Intelligence & Theory
- GPA: 3.93
- Dean's List
- Awarded Faculty Honors by Georgia Tech for achieving perfect GPA, academic year 2016-17

**Coding Languages:** Java, Python, C++, C, SQL (MySQL), JavaScript, Scala, Ruby.

**Technologies:** Linux (Ubuntu, Debian and CentOS), Node.js, Docker, Flask, Django, Rails, Azure, AWS, GCP, api.ai, working knowledge of MongoDB and Cassandra

**Relevant coursework:** Honors Probability & Statistics, Honors Algorithms

## EXPERIENCE

### H Milton Stewart School of Industrial & Systems Engineering

Atlanta, Georgia

#### Student Researcher

January 2018 – Present

- Working on multiple projects in Differential Privacy with Dr. Rachel Cummings
- Implementing the different algorithms to provide as examples to largely theoretical community
- Project to help hospitals create synthesized databases to promote information sharing and retain personal privacy
- Verifying theoretical bounds of machine learning (linear regression) on differentially private systems

### Minnesota Extensible Language Tools (MELT) Lab

Minneapolis, Minnesota

#### Research Assistant

May 2017 – August 2017

- Created a data science language based on Linear and Tensor algebra operations
- Designed the syntax, semantics and features of the language extension
- Learned compiler design, language design and functional programming to implement the language extension
- Implemented efficient n-dimensional matrix and tensor operations
- Created comprehensive guides for new users of the project as a whole
- Containerized dev-environment with Docker for hassle-free set-up, development and testing, with CI integration

### WiredIn

Bangalore, India

#### CFO/COO, Head of Backend Development

December 2013 – March 2015

- Co-founded a startup in high school that tried solving the communication gap in Indian high-schools
- Placed fourth at Microsoft Startup Weekend: only high school team in the contest of 20 teams
- Garnered monetary support of \$60,000 from Microsoft to use the Azure cloud platform as a BizSpark+ company
- Built the backend service with Ruby on Rails, MySQL and Windows Azure
- Launched product at YourStory Launch Friday, alongside Uber India and IBM BlueMix India; presented at Target

## PROJECTS

- Built a reliable real-time person tracker with OpenCV and Python for HackGT 2017
- Building a virtual shopping assistant that incorporates natural language processing, Google Assistant and Facebook Messenger to aid users at supermarkets such as Target and Walmart with JavaScript, Node.js and Express.js
- Worked on the telemetry system for Georgia Tech Solar Racing using Node.js, MongoDB, JavaScript and HTML5
- Submitted a smart course scheduling app to HackGT 2016 built on Python, Flask and HTML5

## INTERESTS

**Activities:** KNIT Mentor, Big-O Theory CS Club, Badminton, Georgia Tech Solar Racing, Mentoring High School Start-ups, Foreign Language and Concept Films, and Quizzing