

# PRABHAV CHAWLA

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<https://github.com/pc98>

<http://prabhavchawla.me>

## EDUCATION

### Georgia Institute of Technology, Atlanta, GA

August 2016 – Present

- Bachelor of Science in Computer Science; GPA: 4.0/4.0
- Relevant coursework- Machine Learning MOOC by Andrew Ng, Data Structures and Algorithms in Java, Object Oriented Programming in Java

Expected Graduation: December 2019

## WORK EXPERIENCE

### School of Interactive Computing, Georgia Tech, Atlanta, GA

December 2016 – Present

Student Research Assistant at Contextualized Support for Learning Lab

- Contributed to the open-source Runestone Components project by improving user accessibility and UX:
  - Used JavaScript to implement the audio tour feature supported by the Runestone library
  - Created custom key maps using CodeMirror API to aid keyboard-dependent users
- Developed content and exercises for the AP Computer Science eBook used by over 10,000 students

### Opera Solutions, LLC, Noida, India

May 2015

Front-end Web Development Intern

- Created an employee login portal using HTML, CSS and JavaScript; portal is used by 100 employees daily
- Exposed to latest trends in Big Data analytics and Data Science through company organized workshops

## PROJECTS

### Halite Game Bot

February 2017 - Present

- Wrote a heuristics-based bot in Python to compete in the Halite challenge and topped local leaderboards
- Implemented a tournament structure for other bots to compete in through a Django application hosted on AWS Elastic Beanstalk

### DisMap

October 2016

- Used a MySQL instance on AWS to manage the database of an Android app which scrapes Yelp reviews to identify businesses with recorded incidents of racism or sexism
- Visualized the data on a map using the ArcGIS Android SDK
- Won the HackHarassment prize at HackNC

### SafeWalk

September 2016 – Present

- Provided backend support for an iOS app which suggests the safest way to walk from origin to destination:
  - Applied data analytics on crime logs using Python to classify streets as safe or unsafe
  - Used Python to make requests to the Google Maps API, process the returned JSON and compute safety scores for each route
- Led a team of four to implement the application for the Georgia Tech campus map at HackGT

### InfraElephant

June 2015 – November 2015

- Co-authored a research paper titled- 'Using Sound Waves to Prevent Elephant Deaths in Train Accidents'
- Designed a Java application to calculate and emit the appropriate frequency for sinusoidal sound wave

## SKILLS

### Languages

- Java, Python, HTML & CSS, JavaScript, MATLAB, MySQL

## ACTIVITIES

### The Agency – AI Club at College of Computing • Member

August 2016 – Present

- Built a bigram Markov chain text generator in Python to emulate the US Presidential Debate
- Trained a word2vec model using the Gensim API in Python to solve analogy questions with 75% accuracy

### Student Government Association IT Board • Member

August 2016 – Present

- Revamped the [tellburdell.gatech.edu](http://tellburdell.gatech.edu) website using Drupal

### Competitive Programming

May 2016 – Present

- Ranked in the top 500 globally in 'Lunchtime' coding competitions hosted on [Codechef](https://www.codechef.com/)