PRABHAV CHAWLA

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http://prabhavchawla.me

EDUCATION

Georgia Institute of Technology, Atlanta, GA   *August 2016 – Present*
- Bachelor of Science in Computer Science; GPA: 4.0/4.0   *Expected Graduation: December 2019*
- Relevant coursework- Machine Learning MOOC by Andrew Ng, Data Structures and Algorithms in Java, Object Oriented Programming in Java

WORK EXPERIENCE

School of Interactive Computing, Georgia Tech, Atlanta, GA   *December 2016 – April 2017*
Student Research Assistant at Contextualized Support for Learning Lab
- Improved user accessibility and UX for the open-source Runestone Interactive project:
  - Revamped the audio tour feature supported by Runestone's API using JavaScprit and jQuery
  - Created custom key maps using the 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 – April 2017*
- Wrote a heuristics-based bot in Python to compete in the Halite challenge; 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 – October 2016*
- 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 website using Drupal

Competitive Programming   *May 2016 – Present*
- Ranked in the top 500 globally in 'Lunchtime' coding competitions hosted on Codechef