

# Drew Hatcher

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## EDUCATION & INTERESTS

### Georgia Institute of Technology

Candidate for BS in Computer Science  
August 2017 - December 2020 (Expected)

Current GPA: 3.95/4.0

### Big Data Big Impact Club @ GT

August 2019 - Present

Working on a project with MARTA to optimize bus routes through Atlanta by creating ML models that analyze traffic data and produce optimal paths. Also attend monthly workshops to dive deeper into diverse fields of big data.

## WORK & EXPERIENCE

### MemberClicks - Software Engineering Intern

Atlanta, Georgia  
June 2019 - August 2019

Worked on a software development team to alleviate pain points for customers. Included debugging and developing on the back end using Scala, Python, Spring Boot, MongoDB and OracleDB. Also included frontend work with Javascript, PHP, HTML5, Node.js, and Angular.

### Stadium IoT VIP Back End Developer

Georgia Institute of Technology, Atlanta, GA  
January 2019 - Present

Member of a sub team designing a relational database and writing a REST API for a mobile iOS app to gauge fan engagement during sporting events. Utilizing the Laravel PHP Framework as well as the WAMP Server software stack to develop and test our backend.

### Discrete Mathematics Teaching Assistant

Georgia Institute of Technology, Atlanta, GA  
January 2019 - Present

Hold office hours, teach weekly recitation, and grade course assignments. Implementing active learning techniques and encouraging collaborative learning. Utilizing my ability to communicate and empathize with others to give back to the community and to improve my own leadership skills.

## PROJECTS

### ML Genre Classification of Movies Using Posters

November, 2019

Used supervised machine learning, specifically convolutional neural networks for multi-label classification of movie genres based on their posters. Wrote python scripts to preprocess our data. Experimented with CNN parameters to create models on which we trained and tested our data, reaching 90% accuracy.

### Movie Theater Tracking App

November 2019 - Present

Developed a mobile application concept for users to track their visits to nearby movie theaters. Created database schema for the application using MySQL. Working to write the restful API and build the frontend UI based on the current wireframe.

### Sense Club Website Prototype

March 2018 - May 2018

Developed a brand identity and manual using a photography club's ideals and purpose. Designed a mobile and desktop website prototype using Adobe XD that is on brand and intuitive for users.

## SKILLS

### Programming Languages

Java (advanced)  
Python (advanced)  
SQL (intermediate)  
C (intermediate)  
PHP (Intermediate)  
Assembly (intermediate)  
Javascript (Beginner)

### Tools & Frameworks

Git  
Docker  
React  
Laravel  
Postman  
Android Studio

### CS Concepts

Machine Learning  
Relational Databases  
Web, Mobile Development  
Object Oriented and  
Low Level Programming  
Algorithm Design  
Data Structures  
UML

### Soft Skills

Desire to Learn  
Experienced Leader  
Reliable Team Member  
Creative Problem Solver  
Passionate and Driven  
Open Minded

### Design

UI/UX Design  
Adobe Creative Suite  
Webpage Design  
Graphic Design  
Photography