

PRABHAV CHAWLA

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EDUCATION

Georgia Institute of Technology, Atlanta, GA

August 2016 – Present

- B.S./M.S. in Computer Science; GPA: 3.95/4.0
- Relevant coursework: iOS Developer Nanodegree by Udacity, Machine Learning, Computer Vision, Game AI, Perception and Robotics, Advanced Algos, Design and Analysis of Algos, Data Structures and Algos, Systems and Networks, Object Oriented Programming, Intro to AI, Intro to Databases
- Concentrations: Intelligence & Theory

Expected Graduation: December 2020

WORK EXPERIENCE

Facebook, Menlo Park, CA

May 2019 – July 2019

Software Engineering Intern

- Performed and shipped a full re-write of core features of Facebook Groups using modern technologies such as React Hooks and Code-Splitting APIs, optimistic Relay mutations, GraphQL queries, and typed Flow code.
- Worked cross-functionally with product designers to make generic implementations of a drag-and-drop list component, and a date range picker component with no external dependencies.
- Wrote server-side code in Hack, end-to-end tests using Jest, and fixed bugs in production code.

School of Interactive Computing, Georgia Tech, Atlanta, GA

August 2018 – May 2019

Student Research Assistant at Expressive Machinery Lab

- Investigated how intelligent agents can improvise in a VR environment with people using virtual props.
- Implemented, tuned and tested generative deep learning models like CVAEs in Keras and Tensorflow.
- Co-authored a paper titled "Affordance-based Generation of Pretend Object Interaction Variants For Human-Computer Improvisational Theater" that was accepted to ICCV 2019.

Pindrop, Atlanta, GA

May 2018 – August 2018

Software Engineering Intern

- Worked in a SCRUM environment to develop a new release of Pindrop's voice fraud detection application. Used React on the front-end, a Ruby on Rails API and a MySQL database on the backend.
- Added new functionality to the API, initiated the use of Cypress for end-to-end tests, created new React components, worked with UX team to implement UI enhancements and fixed bugs reported by QA.

Center for Academic Success, Georgia Tech, Atlanta, GA

August 2017 – Present

Peer-Led Study Tutor

- Plans and holds tutoring sessions twice a week for a Linear Algebra class of 200 students.
- Obtained a level 2 tutoring certification from CRLA (College Reading & Learning Association).

Mylan, Canonsburg, PA

May 2017 – August 2017

Application Developer Intern

- Designed an iOS app for Mylan's office of the CIO to track performance metrics of over 250 IT projects:
 - Application notified users of projects at risk, thus enabling prompt action from Project Managers.
 - Integrated the authentication process with ADFS, allowing users to log-in via company credentials.
 - Utilized the Charts library to create interactive dashboards using data fetched from a SOAP API.

PROJECTS

Chatham Smart Map

August 2018 – May 2019

- Worked with a team on a Vue.js web application to visualize sea-level sensor data from Chatham County through interactive maps, graphs and a time lapse feature.
- Used Mapbox GL JS to render maps, Vuex for state management, Express on the backend, Travis for continuous integration, Jest and Cypress for testing and Heroku for automated deployments.

T-Square Gradebook

August 2017 – October 2017

- Worked on an iOS app that allows students to view class grades in a user friendly, lightweight mobile UI.
- Enabled support for Georgia Tech's CAS and two-factor authentication process, used the SwiftSoup library to parse HTML data fetched from T-Square (the official gradebook portal) without API access.

Analogy Question Solver AI

November 2016

- Trained a word2vec model on the Wikipedia corpus using the Gensim library and Python's NLTK library.
- Tested the model on analogy question extracted from documents using regex; reached 75% accuracy.

SKILLS

- *Languages:* JavaScript, TypeScript, Python, Ruby, Swift, Java, SQL
- *Frameworks:* React, Relay, Vue.js, Express, Ruby on Rails, iOS dev, Android dev, Tensorflow