

PRABHAV CHAWLA

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EDUCATION

Georgia Institute of Technology, Atlanta, GA

August 2016 – Present

- B.S./M.S. in Computer Science; Graduate GPA: 4.0/4.0 *Expected Graduation: December 2020*
- Relevant coursework: Deep Learning, Machine Learning, Computer Vision, Game AI, Perception and Robotics, High-Performance Computing, Advanced OS, Advanced Algos, Design and Analysis of Algos, Data Structures and Algos, Systems and Networks, Intro to AI, Intro to Databases
- Concentrations: Machine Learning, Intelligence & Theory

WORK EXPERIENCE

Facebook, Seattle, WA

May 2020 – Present

Software Engineering Intern

- Incoming intern in the Public Connections & Monetization org.

Facebook, Menlo Park, CA

May 2019 – July 2019

Software Engineering Intern

- Performed a full re-write of core Facebook Groups features using modern web technologies such as React Hooks, Code-Splitting and Concurrent Mode APIs, optimistic Relay mutations, and strongly 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, E2E 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

- Implemented, tuned and tested generative deep learning models like CVAEs in TensorFlow Keras.
- 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 endpoints to the API, initiated the use of Cypress for E2E tests, and fixed bugs reported by QA.

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.
- Integrated the authentication process with ADFS, thus allowing users to log-in via company credentials.
- Utilized the Charts library to create interactive dashboards using data fetched from a SOAP API.

PROJECTS

Praan Progressive Web App (PWA)

January 2020 – April 2020

- Leveraged Google Cloud Functions, Firestore and Pub/Sub topics to store air quality sensor data from India.
- Exposed the data via an Express API and added caching middleware to significantly reduce response time.
- Built a responsive React PWA in TypeScript that utilized Firebase for authentication and hosting, Highcharts to plot sensor data, and the Google Maps Geocoding API to retrieve sensor location.

Donation Marketplace Solution

January 2020 – April 2020

- Led the development of a Next.js web app for users to make donations to nonprofits of their choice.
- Optimized performance through server-side rendering and build-time static generation of dynamic routes.
- Made use of Stripe's APIs to securely process payments, and MongoDB with Mongoose for storage purposes.

Chatham Smart Map

August 2018 – May 2019

- Worked with a team on a Vue.js web app to visualize sea-level sensor data from Chatham County through interactive maps, graphs and a time lapse feature made using the Mapbox GL JS library.
- Used Vuex for state management, Travis for continuous integration and Heroku for automated deployments.

SKILLS

- *Languages:* TypeScript, JavaScript, Python, HTML/CSS, Java, C, SQL, Ruby, Swift
- *Frameworks:* React, Next.js, Express, Redux, Relay, GraphQL, MongoDB, Vue.js, Rails, Flask, TensorFlow