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

WORK EXPERIENCE

Facebook, Seattle, WA *May 2020 – August 2020*

Software Engineering Intern

- Migrated existing codebase of the Public Connections Discovery team to use a standard UI framework.
- Improved the framework's pagination APIs and customizability to support a wider range of requirements.
- Worked extensively with Hack, server-side event logging and A/B tests for incremental testing and rollout.

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 GraphQL queries.
- 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 regressions in production code.

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 that let users 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.

Image Segmentation Results Viewer *October 2019 – December 2019*

- Built a Flask web app to display results of various segmentation techniques on images chosen randomly at every page load from the Berkeley Segmentation Dataset 500.
- Used a GitHub repository as a database of binary files that could be queried to generate results on the fly.

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.

T-Square Gradebook *August 2017 – October 2017*

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

SKILLS

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