

PRABHAV CHAWLA

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Experience

Citadel

February 2021 – Present

Software Engineer

Chicago, IL

- Working on several mission-critical UIs, REST, gRPC, GraphQL microservices and Airflow jobs used by investment professionals to trade, manage risk and measure performance in equity markets across the world.
- Single-handedly overhauled an existing app – increased uptime from 95% to 99.9% by leveraging Kubernetes and Datadog monitoring, achieved x10 speed-up by optimizing SQL queries, caching strategies and vectorizing operations, x70 reduction in monthly API costs, and x6 reduction in production PagerDuty incidents over a period of 8 months.
- Awarded the org's Engineering Excellence award for commitment to code quality, reviews, and adopting best practices.

Facebook

May 2020 – August 2020

Software Engineering Intern

Seattle, WA

- Migrated existing codebase of the Public Connections team to use a cross-platform, server-rendered UI framework.
- Drove adoption from product teams across Facebook by improving the framework's pagination and customization APIs.
- Wrote server-side code in Hack, E2E tests in Jest, and ran A/B experiments for rollout on iOS, Android and FB Lite.

Facebook

May 2019 – July 2019

Software Engineering Intern

Menlo Park, CA

- 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, GraphQL fragments and atomic CSS.
- Collaborated cross-functionally with product designers to develop new components in a shared React library.

Pindrop

May 2018 – August 2019

Software Engineering Intern

Atlanta, GA

- Worked in a SCRUM environment to develop a new release of Pindrop's voice fraud detection application.
- Used Ruby on Rails with a MySQL database on the backend and initiated the use of Cypress for E2E tests.
- Resolved over 30 JIRA tickets ranging from feature requests, to fixing QA reported bugs and long-standing tech debt.

Education

Georgia Institute of Technology

August 2016 – December 2020

B.S./M.S. in Computer Science; Graduate GPA: 4.0/4.0

Atlanta, GA

- **Relevant Coursework:** Big Data Systems, High-Performance Computing, Advanced OS, Systems and Networks, Intro to Databases, Advanced Algos, Data Structures and Algos, Probability and Statistics, Linear Algebra, Machine Learning

Projects

Praan Progressive Web App (PWA) | TypeScript, Express, Google Cloud Platform

January 2020 – April 2020

- Leveraged Google Cloud Functions, Firestore, and Pub/Sub topics to store real-time 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 | Next.js, MongoDB, Vercel

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 – code deployed as stateless serverless functions on Vercel – and MongoDB, managed via Atlas, along with Mongoose ORM for persistent storage requirements.

T-Square Gradebook | Swift, Web Scraping

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) all without any API access.

Skills

Languages: Python, TypeScript, JavaScript, SQL, HTML/CSS, Hack, Bash, Ruby, C, Java

Developer Tools: Kubernetes, Datadog, Splunk, Airflow, Docker, SQL Server, MongoDB, Bamboo CI/CD, Git

Frameworks: Flask, SQLAlchemy, gRPC, Pandas, React, Next.js, Apollo, GraphQL, Express, Redux, Rails