

Justin T. Tran

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WORK EXPERIENCE

Qualtrics, Full Stack Developer

Software Engineer II

October 2021 – October 2023

- Team lead of the Digital Experience Creator team, focused on building a React web portal allowing Qualtrics customers to create and customize tools for receiving feedback on their customers' digital experiences
- Owned and developed multiple services and features for Digital Experience Analytics, a real-time session replay feature recording and storing thousands of user sessions per minute, live on customer websites
- Designed and led development of a Node service that returns over 500 definitions per minute to customers; migrated existing asset definitions from Qualtrics-hosted databases to an AWS DynamoDB database and seamlessly transitioned existing customer requests to the new service
- Led the team in an engineering-wide effort to extract teams' microservices from a legacy monolithic Qualtrics PHP codebase

Software Engineer I

July 2019 – October 2021

- Led a customer-facing project for the team's mobile SDKs for iPhone and Android, which allowed customers to create embedded dialogues in their apps and collect feedback using Qualtrics surveys
- Improved latency of targeting logic evaluation by 2x by migrating server-side logic evaluation to the client-side; transitioned code from legacy vanilla JavaScript to Typescript

Software Engineering Intern

May 2018 – August 2018

- Developed an in-product notification system for survey sharing with React and Redux
- Worked across multiple teams to make additions to Qualtrics' main codebase and send new notifications for consumption by the front-end client

Motional.AI, Software Engineering Intern

New Brunswick, NJ

June 2017 – August 2017

- Worked on artificial intelligence approaches for embodied conversational agents
- Used C# to develop a signal processing and conflict resolution unit to interpret users' emotions and speech
- Wrote a classifier using Hidden Markov Models to identify transitions in a user's behavior over the course of a conversation

Cornell Design & Tech Initiative, Developer

Ithaca, NY

October 2016 – May 2019

- Built a web application in React and NodeJS to help Cornell students plan their semesters; involved integration with Cornell's course roster API to facilitate scheduling and workload management

SKILLS

- **Programming Languages:** Typescript, Python, Javascript, PHP, Swift, Java, SQL, GoLang
- **Web Applications/Technologies:** ReactJS, NodeJS, Jest, Angular, Webpack, HTML/CSS
- **Infrastructure:** AWS (AuroraDB, DynamoDB, Lambda), Nomad, Splunk, SUMO, Prometheus, Grafana, Docker
- **Other:** Sketch, Git, Jenkins, Figma

EDUCATION

Cornell University

Ithaca, NY

Graduated May 2019

GPA: 3.5, Bachelor of Arts: Computer Science