





Dylan Wong

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EXPERIENCE

Talka.ai

January 2022 - April 2022

Software Engineering Intern

Toronto, Canada

- Created, designed and deployed a data pipeline that fetches and stores video sales calls and metadata, used to download over 20,000 new customer calls and roughly 200 new calls daily using Python, Cloud Run for a serverless cloud script and Cloud Scheduler to automate daily runs.
- Automated a text annotation extraction pipeline to extract of video annotations and added functionality to populate call and company metadata to use for sorting and other dashboard features, increasing pain point metadata coverage from 15% to 74% using Python and Cloud Run.
- Built snippet playlist features in Python, TypeScript and React for selecting, extracting and saving highlighted text from time based video call transcripts.
- Wrote functionality to customize filter options depending on available call info to speed up customer onboarding.
- Implemented cursor pagination for various backend routes using Python and SQLAlchemy.

Remitbee

May 2021 - August 2021

Full Stack Developer Intern

Mississauga, Canada

- Built a business account dashboard client in React, Redux as well as created the backend GraphQL queries and mutations for employees to interact with and manage the business account info using JavaScript and Sequelize.
- Devised SQL queries to efficiently sort, join and group business and marketing data by different fields and wrote GraphQL resolvers to collect this marketing information to display.
- Built marketing dashboard pages to view user data grouped by different attributes in various charts and tables to better visualize user trends using React and Chart.js.
- Implemented an external event based server-side customer relationship system to provide marketing automation features using JavaScript and Sendinblue.

PROJECTS

Queue Platform |

February 2022 - Current

- Designed a URL redirection based queue system with the idea of handling high traffic points on websites with redirection similar to ticket or sneaker purchasing queues to enhance user experience on configured sites.
- Built out the platform based around the key ideas of protecting server side routes for the configured server, easily configurable queues in terms of user access throughput and duration to the configured server and no sensitive data exposed to the queue server.
- Created the queue backend using Go, Gin, GORM and PostgreSQL and the queue frontend with Next.js and React.
- Utilized background Goroutines to manage queue entries and provide redirect URLs with issued tokens that would be verified through middleware configured with a queue secret and queue id.
- Built a simple demo implementation in Next.js and tested multiple simultaneous entries with Selenium.

Mangrove Golf |

May 2021 - August 2021

- Created a platform that provides golf players and coaches a variety of tools and built features include securely sharing swing videos, recording lessons and analyzing swings.
- Built the backend features including authentication and role and permission based access for swings and lessons with Typescript, MongoDB, GraphQL and Node.js, used S3 to store swings, lesson recordings and audio.
- Constructed the frontend user and coach dashboard with Apollo GraphQL, React and Material-UI.
- Developed a lesson canvas feature that allows coaches to present swing feedback audible by synced record audio synced with swing timing and visually through drawing features through recorded canvases using raw HTML and React.

SKILLS

Languages: Go, Python, TypeScript, JavaScript, Java, C, C++, SQL

Technologies: React, Node, Express, GraphQL, MongoDB, Apollo, Redux, Vue.js

Developer Tools: Git, Docker

EDUCATION

University of Waterloo

Bachelor of Software Engineering

- Cumulative Average: 90.7%

Waterloo, Canada

Sep. 2020 - Apr. 2025