

Justin Goping

4A Computer Science

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JG justingoping.com

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Technical Skills

Languages: JavaScript/TypeScript, C, C++, Python, Java, SQL, Octave

Technologies: React, Node.js, Express.js, Redux, AWS, Mocha, GraphQL, Git, HTML, CSS

Certifications: AWS Solutions Architect Associate, Machine Learning on Coursera

Work Experience

Voiceflow Fullstack Developer

Jan. 2021 – Apr. 2021

- Created client-facing UI components with **React/Redux/TypeScript** used by **40,000+** developers and designers
- Constructed new microservice endpoints using **Node.js** with **Express** to enable Amazon Alexa and Microsoft LUIS model exports for enterprise clients
- Improved **NLU/NLP** conversation system by creating **Microsoft LUIS** entities to extract information from speech
- Wrote E2E tests with **Cypress** and unit tests with **Mocha**, increasing test coverage of a core repository by **80%**

Capital One Software Engineer

Sept. 2019 – Dec. 2019

- Developed **AB Testing Framework** with **~95% test coverage** using **React** for evaluating alternative user flows for company websites
- Launched ongoing AB testing campaign with over **600+ daily users** to test different credit card application forms
- Designed the framework with **high level abstractions** to be easily integrated into other projects
- Implemented automatic website **data verification** by receiving **Apache Kafka** data and validating it in **Python** against configurable schemas

TribalScale Software Engineer

Jan. 2019 – Apr. 2019

- Redesigned a **Spring Boot** backend to transform traditional endpoints into one endpoint with **GraphQL** support in order to increase customization for the different clients
- Developed features for an **Android FireTV** family radio app for iHeartRadio which included blocking content, a settings screen, and improved background animation handling
- Turned designs into a functional website using **React** and **Redux** to give an old project a modern redesign

Finastra Software Developer

May 2018 – Aug. 2018

- Built model and controller in **.NET Core** to send data from **SQL Database** to the **Angular** frontend
- Implemented new **security features** into the front end using RouteGuards and backend using policies and handlers so that features are protected from unauthorized users
- Wrote **creation, insertion, and deletion scripts** with required documentation to set up and deploy SQL tables

Projects

Cooldown Chess 🎮

- Created a **real-time multiplayer** web-game where users play chess without turns using **React** and **Node.js**
- Utilized **websockets** with **Socket.IO** to enable the bidirectional flow of data between the client and server

Prediction Bot 🤖

- Created a **Discord Bot** with **Node.js**, **MySQL**, and the **Discord.js** module to emulate Twitch's prediction system
- Wrote extensive unit tests using **Mocha/Chai/Sinon** to ensure proper functionality, achieving **90%** test coverage

Education

University of Waterloo

Sept. 2017 – Apr. 2022

Candidate for Bachelor of Computer Science, Minor in Combinatorics and Optimization, Major Average: **91.57%**