# **Bryan Ling**

#### **SKILLS**

- Languages: JavaScript, TypeScript, Python, C++
- Frontend: React, Redux, Material-UI, styled-components, Apollo Client, GreenSock, Adobe XD
- Backend: Node.js, Express, Flask, MongoDB, Jest, Git, Docker, Firebase, OpenCV, Jira, Clickup

#### **WORK EXPERIENCE**

### Applied Brain Research - Frontend Engineer Intern

Jan 2021 - Apr 2021

- Deployed an NPM Graphing Library used across internal projects to plot real-time Al training, confusion matrix, and neuron activity data using React, Typescript, SVG and styled-components
- Developed a cloud interface for clients and internal use with a reusable table component supporting inline editing and sorting with React, Apollo Client, and Material-UI
- · Designed an NPM template package used in current and future projects for CI with Husky, Prettier, and commit-linting

## Cognitive Systems - Software Engineer Intern

May 2020 - Aug 2020

- Streamlined a manual data visualization process for the data science team by deploying a web app to display changes in a WiFi network with React and ChartJS
- · Automated the detection of quiet samples from WiFi Router data by integrating a Flask backend for the web app after documenting experiments using Matplotlib and NumPy

## Ontario League of Associated Esports - Full Stack Developer

Feb 2019 - Aug 2019

- Built website for 300 concurrent users with a real-time matchmaking system, user authentication, and player statistic displays with React, Redux, and Firebase
- Integrated Node.js statistics backend with data from the Riot Games API to identify provincial-level candidates
- · Automated social media content generation using PIL and MoviePy in Python
- Conducted user testing by developing and auditing a frontend prototype with Material-UI and Adobe XD

#### **PROJECTS**

# Overwatch League Arena ( ) 🖒 - In-Person Esports Event Stadium Simulation

- Contacted by Blizzard Entertainment to create a feature, sponsored by Coca-Cola, after the project generated a combined 10,000 views across Reddit and Youtube
- Developed character timeline animations using React, Redux, and GreenSock to sync with computer vision detected events from video footage using OpenCV and Socket.io
- · Automated character video loop finding with OpenCV and the collecting of team branding assets with Puppeteer

# Crambarry - Gamified Classroom Social Web App

- Application approved by Waterloo Region District School Board for student use
- Developed a roulette rewards system, customizable player profiles, a multi-user flashcard generator, discussion forums, and chat rooms using React, Redux, and Firebase

# Clip Ship - Browser Video Editor for Twitch.tv

- · Built a Twitch live stream clip editor to assist content-creators in creating video compilations using drag and drop timeline features built with React and Redux
- · Created a RESTful API backend with Express, FFmpeg, and MongoDB to store user data and render video files
- · Published as a multi-container application with **Docker-compose**

#### **EDUCATION**