

Jonathan Kent

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EDUCATION

- **McGill University** Montreal, QC
Bachelor of Arts in Computer Science; GPA: 3.59 2017 – 2021

PROJECTS

- **Lyric Guesser:**
 - **Skills and Technologies:** JavaScript, Python, React, Node, Express, MongoDB
 - **Description:** A game of guessing which lyric appears in more hit songs. Users can submit custom comparisons and view the guesses of other users. A front-end built with React and a back-end with Node, Express, and MongoDB. Songs and lyrics were sourced using Python and the Genius API.
- **Ray Marching Rendering Demo:**
 - **Skills and Technologies:** JavaScript, HTML
 - **Description:** A demonstration of 3D rendering with sphere tracing and signed distance functions. A scene of simple 3D shapes with diffuse lighting and shadows accompanied by a 2D demonstration of sphere tracing.
- **Crossword Constructor:**
 - **Skills and Technologies:** Java, Python
 - **Description:** A crossword constructing Java application that uses a backtracking algorithm to fill custom crossword grids. The words used to fill crossword grids were sourced from Dictionary.com and Wikipedia article titles using Python.
- **Professional Athlete Mapping:**
 - **Skills and Technologies:** JavaScript, Python, ArcGIS API
 - **Description:** An interactive, in browser map of the birthplaces of athletes from the NBA, NFL, NHL, and MLB created with the ArcGIS API for JavaScript. Data was sourced using Python and the ESPN API then geocoded using GeoPy.
- **Sound Visualizer Chrome Extension:**
 - **Skills and Technologies:** JavaScript, Three.js
 - **Description:** A Chrome extension that creates an animated visualizer from a tab's audio.
- **Subreddit Sentiments:**
 - **Skills and Technologies:** Python, Reddit API
 - **Description:** An analysis of comment sentiments of chosen subreddits using VADER. Comments were sourced using the Reddit API, analyzed with VADER, and the results were visualized with Matplotlib.

WORK EXPERIENCE

- **True Scape Design** Seattle, WA
Crew Member *June 2018 – August 2019*
 - Hardscape, softscape, irrigation system, green roof installation, and carpentry.
- **Landscape Professionals Inc.** Renton, WA
Crew Member *June 2015 – August 2017*
 - Hardscape, softscape, irrigation system, green roof installation.

SKILLS AND TECHNOLOGIES

- Java, JavaScript, HTML/CSS, React, Python, C/C++, OCaml, SQL, MongoDB, Bash, Git