

# David Young

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## EDUCATION

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### Brown University

*B.S., Computer Science*

**Aug. 2019 – Present**

*Providence, RI*

## WORK EXPERIENCE

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### UConnect

*Backend Developer*

**Oct. 2021 – Present**

*Providence, RI*

- UConnect is a Brown University startup that provides a platform facilitating connections between students of similar interests in the post-COVID environment.
- Convert the current Firebase API to one written in Java powered by the Spring Framework.
- Leverage AWS DynamoDB for backend storage.

### Virtual Environment Navigation Lab (VENLab)

*Developer*

**Nov. 2021 – Present**

*Providence, RI*

- Implement a Bayesian adaptive staircase procedure (QUEST+) in Python that interfaces with Vizard (VR software) to explore the perceived energetic costs of walking depending on the terrain.

## PROJECTS

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### SimCLR

**Oct. 2021 – Dec. 2021**

- Implemented SimCLR, a state-of-the-art deep learning framework for self-supervised image classification, in a team of three.
- Model was implemented in PyTorch and trained on the Google Cloud Platform on the CIFAR-10 dataset.
- Achieved 77.4% top-1 and 94.8% top-3 accuracy using only 10% of the labeled data, significantly outperforming a fully-supervised model in the absence of large amounts of data.

### K-Means Polygonization

**Oct. 2021 – Dec. 2021**

- Worked with a partner to create a framework for generating low-poly representations of images using k-means clustering to improve semantic coding while preserving low computational requirements.
- Coded in Python, using scikit-learn and scikit-image, among other libraries, for image processing.

## ACTIVITIES

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### Full Stack at Brown

*Frontend Developer*

**Oct. 2021 – Present**

*Providence, RI*

- Design a new website for Brown Esports using React and TypeScript in the frontend and GraphQL for queries to the backend.

### Brown Taiwan Society

*Treasurer*

**Sep. 2019 – Present**

*Providence, RI*

- Manage finances and draft budget proposals for club events.

## SKILLS

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- **Languages:**
  - **Proficient:** Java, Python
  - **Familiar:** C, JavaScript, HTML, CSS, MATLAB, SQL
- **Other Technologies:** Git, Figma, React, DynamoDB, Google Cloud Compute, Spring Framework, GraphQL