

# Brian Yu

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<https://github.com/brian-yu>

## Education

**B.S. Computer Science, University of Virginia, Charlottesville, VA**  
May 2021, 4.0 GPA  
Relevant Courses: Data Structures, Algorithms, Internet Scale Applications, Operating Systems  
**Thomas Jefferson High School for Science and Technology, Alexandria, VA**

## Experience

- Stripe, Software Engineering Intern, Remote** May 2020 - Aug 2020
- Built a system that automatically requests and reviews tax forms, replacing a toilsome manual process that protects Stripe from millions in tax liability.
  - Collaborated with technical and non-technical teams, working with Ruby, React, and the internal event streaming system.
  - Won Stripe's intern hackathon, adding jump-to-definition and on-hover type information to company code search tool.
- Google, Software Engineering Intern, Sunnyvale, CA** June 2019 - Aug 2019
- Built and launched an internal tool as part of the [Google Transparency Report](#) team.
  - Developed the full stack, working on frontend UI components and backend services.
  - Gained experience with TypeScript and Java.
- FireEye, Software Engineer Intern, Reston, VA** May 2018 - Aug 2018
- Built a web dashboard that allowed engineers to easily monitor and restart asynchronous jobs.
  - Gained experience with React/Redux, Ruby on Rails, Git, Kanban, and software testing.

## Projects

- Creator, PoseParty** Mar 2020
- Built a multiplayer web game that uses computer vision to score players' yoga poses.
  - Developed with React, TensorflowJS, Python websockets, and Twilio.
  - Winner of [HooHacks 2020, Hack Quarantine, and Decoded Hacks](#)
- Creator, L.A. Bikes** Dec 2018
- Built a tool that allows users to explore and visualize L.A. bike sharing data.
  - Earned admission to the 2019 Capital One Software Engineering Summit.
  - URL: <https://bikes.byu.io>
- Creator, Tracking Foot Traffic over IP Webcams** Dec 2017
- Developed a system that monitors foot traffic in specific locations over internet connected webcams using Python, Jupyter Notebooks, Flask, and the YOLO convolutional neural network architecture.
  - URL: <https://news.ycombinator.com/item?id=15874866>

## Leadership

- Program Lead, HackCville, Charlottesville, VA** Apr 2018 - Dec 2019
- Led HackCville's backend web development program, where I taught a class of 25 students about system design principles and how to deploy a Python web application to the cloud using Docker, Django, and MySQL.
- President, theCourseForum, Charlottesville, VA** Dec 2018 - May 2020
- Led a team of 10 student developers building an appll used by over 10,000 other UVA students.
  - Guided migration from untested and undocumented legacy Rails app to a tested, documented, and containerized Django application.
  - URL: <https://thecourseforum.com/>

## Skills

Proficient: Python, Ruby, JavaScript, Java  
Familiar: C++, Go