

BRIAN YU

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EDUCATION

Harvard College, Cambridge, MA, Class of 2019 2015–2019

- Bachelor of Arts, summa cum laude in Computer Science and Linguistics (GPA of 3.99)
- Phi Beta Kappa Inductee, Alpha Iota Chapter, Junior 24
- 2017, 2018, and 2019 recipient of Derek Bok Center Certificate of Distinction in Teaching
- 2016, 2017, and 2018 John Harvard Scholar, 2016 Detur Prize

EXPERIENCE

Harvard University Division of Continuing Education 2019–Present *Senior Preceptor*

- Instructor for CSCI E-33a: Web Programming with Python and JavaScript; taught version control, web application development, Python, JavaScript, SQL, API design, CI/CD, security, scalability. Designed curriculum, taught lectures, managed staff for course with over 300 students across three terms.
- Preceptor for CS50, Harvard's introductory course in CS. Trained teaching staff of 80 undergraduates at Harvard College, taught sections, organized and held office hours, wrote problem sets for the course.
- Preceptor for CSCI P-14300, web programming class offered to high school students at Harvard Summer School.
- Designed and developed software tools for students and teachers, including GitHub-based online gradebook.

Harvard University School of Engineering and Applied Sciences 2016–2019 *CS50 Head Teaching Fellow; CS51, CS124, CS20, CS100 Teaching Fellow; Software Developer*

- Led teaching staff of 80 undergraduates at Harvard College for Harvard's introductory computer science course
- Taught CS50 Beyond, a one-week follow-on to Harvard's intro CS class; designed curriculum and projects
- Built regular-expression based tool for parsing and interpreting clang/valgrind errors to guide beginning students
- Designed and developed submission and automated grading infrastructure for Harvard's intro CS course
- Developed online tool using WebSockets to allow students to provide live feedback during lectures and sections
- Trained teaching staff of 30 undergraduates at the Universidad Nacional de Ingeniería in Managua, Nicaragua
- Taught sections and office hours in courses on programming, data structures, algorithms, discrete mathematics

Palantir Technologies 2018 *Software Engineering Intern*

- Wrote a map-based UI for filtering high-scale geographic data, using map APIs, Marionette, and TypeScript
- Developed an access-controlled system for pre-processing Elasticsearch term queries for more efficient searches

The Harvard Crimson 2015–2019 *Digital Strategist, Associate News Editor, Designer, News Writer*

- Led newspaper's data journalism team and wrote software to facilitate analysis of big-data stories.
- Wrote graphic design tools with D3 to create dynamic and interactive charts and graphics for online content.

Columbia University SAFELab 2017-2018 *Research Intern*

- Wrote software to generate semantic networks based on conceptual dependency analysis of natural language.
- Wrote scripts to analyze Twitter mention networks to help with gang violence prevention efforts.

TECHNICAL SKILLS

Languages	Python, JavaScript, TypeScript, SQL, HTML, CSS, C, OCaml, PHP, Java
Frameworks and Libraries	React, Redux, Flask, Django, jQuery, D3, Bootstrap
Tools	Git, InDesign, Photoshop, Illustrator, LaTeX, Markdown