

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

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| 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 |