

Arya Boudaie

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Education:

Brandeis University, Waltham, MA - *Bachelor of Science* in Computer Science (with Honors) and Music - GPA: 3.6 (2013-17)

Relevant Courses: Game Theory, Cryptography, Algorithms, Software Engineering, Discrete Mathematics, Theory of Computation, Data Structures, Operating Systems, Databases, Computational Biology, Math Logic, Senior Honors Thesis in CS Education.

Job Experience:

Google, Software Engineer - Full Stack (July 2017-Present) (*Python, HTML/CSS/Javascript, SQL*)

- Develop full-stack features, write tests, and fix bugs for the YouTube player, with specificity on the embedded web player.
- Develop new error screen experience for embeds: cleaner, more user friendly, and with links to drive users back to YT.
- Work with engineering manager, product manager, UX designer, and legal to create specifications for features.
- Work with UX testers and experimental data to enhance features, including a11y and i18n optimizations.
- Develop internal tools and web apps to enhance testing experience, increase test coverage, and increase developer velocity.
- Write SQL scripts, analyze data from logs and set up experiments for features to determine product goals and results.
- Interview and evaluate software engineering candidates for technical skill and career potential.

Brandeis University, Software Engineer on Measuring Polyphony Project (*Spring 2017*) (*Python, Django, Javascript*)

- Designed database structure, wrote Python/Django backend, integrated with HTML template, and integrated Verovio library for converting XML files into sheet music SVG files to display research of Karen Desmond.

Brandeis University, Head Teaching Assistant - Computer Science (*Fall 2016-Spring 2017*) (*Java, Python, Theory*)

- Created assignments, and managed other teaching assistants for Intro Java, Intro Python, and Theory of Computation.

Google, Software Engineering Intern - Youtube Identity Team (*Summer 2016*) (*Python, Javascript, CSS*)

- Develop new desktop channel creation flow to increase user interaction with YouTube.
- Added functionality to account switcher, as well as removed some legacy Google+ remnants.

Brandeis University, Software Engineer for Western Jihadism Project (*October 2014 - January 2016*) (*Python, Django*)

- Lead project for Professor Jytte Klausen, collecting data on western terrorism - funded by the US Department of Defense.
- Technical lead, developing web app and database schema for team to increase team productivity and data sanitation.

Kyruus, Software Engineering Intern (*Summer 2015*) (*Python, Flask, Django, Rails, HTML, CSS, Javascript, Selenium*)

- Developer on team implementing and testing single sign-on for all Kyruus applications with client-side Javascript.

Happy Herbivore, Software Engineering Intern (*Summer 2014*) (*Python, Django, Rails, HTML, CSS, Javascript*)

- Developed tools for analysis and visualization of sales data, as well as built features for webapp.

Technical Skills/Languages:

Fluent in: Python - Frameworks: Django, Flask

Used Regularly: Javascript, HTML, CSS, SQL, a11y, i18n, Java, Git, Testing, Unix, SciPy, NumPy, Matplotlib, Jupyter

Past Experience: Ruby/Rails, C, MaxMSP, Scheme

Technical Projects:

Personal Blog/Technical Writing: Write clear and in-depth code tutorials and advice, seen by over 15k people & 1k upvotes on Reddit.

SpectraNet: Full stack developer on project to create ML algorithm for analyzing proteomics data - 1st place @ UCSF hackathon.

Senior Thesis: Designed, helped implement, and analyzed results for real-life skills Python course for non CS majors - 160 students.

Rideshare Allocation: Implemented graph algorithm for allocating cabs in ride sharing - Game Theory Final Project.

Modern Improviser: Javascript/MaxMSP algorithm that improvises over chords using patterns (*Javascript, MaxMSP*)

Leadership/Volunteer Experience:

- Speak to high school classes about studying computer science and different tech careers.
- Work with high school teachers to improve computer science curriculum & understanding of CS fundamentals.
- Co-President of Brandeis CS Club - Founded Codestellation Hackathon and designed CS events for students.

Activities:

Study Abroad at *Indian Institute of Science* (took masters level Cryptography, Game Theory, and Virtual Reality)

Brandeis Early Music Ensemble (recorder/lute) and Wind Ensemble (clarinet)