

ALYSSA WANG

References available upon request.

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<https://github.com/AlyssaWang>

<https://alyssawang.github.io/>

EDUCATION

Williams College, B. A. — *Computer Science, Comparative Literature*

Sep 2016 - June 2020

- **GPA:** 3.7/4.0, Dean's List
- **Activities:** Computer Science Class of '60s Scholar • Chinese-American Student Organization Co-chair (2017 - 2018) • Underrepresented Identities in CS • Women in CS • Ballroom Club

Oxford University, *Williams-Exeter Programme at Oxford*

Sep 2018 - June 2019

- **Activities:** Oxford Women in CS • Oxford Women in Science and Technology • Turl Street Homeless Action

EXPERIENCE

MITRE Corporation, *Software Engineer* — *ReactJS, Material UI, TensorFlow, Power BI*

Aug 2020 - present

- Collaboratively built a web UI with filter and search capabilities for a database search engine using ReactJS.
- Designed and architected a data visualization dashboard to aid COVID-19 plasma donation outreach efforts.
- Built a Keras machine learning model to classify successful flight paths to improve future planning efficiency and minimize the novice-expert learning gap.

Williams College, **Prof. Iris Howley**, *Research Assistant* — *TypeScript, Angular, Firestore*

Sep 2019 - June 2020

- Prototyped a web app to analyze **Bayesian Knowledge Tracing** as an effective method for evaluating learning.
- App features multiple dashboards: Admins can CRUD questions and answers, Users can answer questions, and after submitting a quiz, both are able to see a BKT results dashboard indicating level of learning achieved.

Google, **Angular**, *SWE Intern* — *TypeScript, Angular, Github API, NgRx, RxJS*

June 2019 - Sep 2019

- Implemented filters, optimized data retrieval/storage, and added UI updates to the Caretaker Dashboard.
- Provided advanced functionality for the Caretaker (internal); streamlined the Caretaking process on Angular.

Google, **Local Search UI**, *EP Intern* — *JavaScript, React, JSLayouts, protocol buffers*

May 2018 - Aug 2018

- Introduced user moderation voting and pending edit interaction to desktop Google Search.
- Increased rates of location edit approval; provides additional feedback to users.
- **Impact:** 37k additional votes/week (previously none).

SELECTED PROJECTS

Gridiron Gauntlet – *Game Design, Gesture Recognition, Collision Detection*

- Single player iOS clone of the Super Mario Party game, *Gridiron Gauntlet*. The player must avoid colliding with time-scaled moving enemies within the game board bounds for as long as possible.
- **Technologies:** Swift/Xcode, SpriteKit, UIKit, GameplayKit, CoreGraphics

PIN? – *User Experience, Design, User Testing*

- Design project. Encourages users to be curious via location-based information crowdsourcing.
- **Technologies:** Balsamiq, Markdown, Git, contextual inquiry, paper and digital prototypes, user testing

SKILLS AND INVOLVEMENT

- **Programming Languages:** JavaScript, TypeScript, HTML/CSS, Python, Java, Swift, Kusto/SQL, Scala, C, R
- **Technologies:** Git, Angular, Firestore, Tensorflow Keras, Power BI, Azure Databases, Arduino, GraphQL, LaTeX
- **Languages:** English (Fluent), Spanish (Proficient), Mandarin (Limited Proficiency)
- **Awards:** Generation Google, Anita B.org Scholar, NCWIT Aspirations (National Runner-Up, Regional Winner)
- **Diversity and Inclusion in STEM:** NCWIT Application Reviewer, Google CSSI Participant 2016, Girls Who Code (SIP Graduate (Twitter 2014), Alumni Liaison (Boston), Club Founder and President)
- **Hackathons:** Creatica, GraceHacks, Spectra 4.0 (**Mentor**) • OxfordHacks (**Staff**) • EphHacks (**Best Execution**) • HackRPI (**Funniest Hack**) • Hack Cambridge, HackNY, HackHarvard, HackGT, Hack the North (**Participant**)