ALYSSA WANG

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References available upon request.

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*

- **GPA**: 3.7/4.0
- **Activities**: Oxford Women in CS, Oxford Females in Science and Technology, Turl Street Homeless Action

EXPERIENCE

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).

Google, **Chrome Metrics**, *EP Intern — JavaScript, Python, Google Visualizations, Polymer* *May 2017 - Aug 2017*

- Created regression graphs (ranked) and optimized algorithms on the Chrome developer timeline dashboard.
- Allows Chrome/Android developers to find regressions; led to simplified detection of causes of unusual metrics.

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,** Scala, C, R
- **Technologies**: Git, Angular, FireStore, Arduino, GraphQL, WebGL, Polymer, Google App Engine, 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**: Spectra 4.0 (**Mentor**) • OxfordHacks (**Staff**) • EphHacks **(Best Execution)** • HackRPI **(Funniest Hack)** • Hack Cambridge, HackNY, HackHarvard, HackGT, Hack the North **(Participant)**