ALYSSA WANG

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https://github.com/AlyssaWang
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References available upon request.

EXPERIENCE

MITRE Corporation, *Software Engineer — React, Material UI, Vue, TensorFlow, Power BI*   *Aug 2020 - present*
- Developed **Power BI data visualizations for COVID-19 plasma donation** outreach efforts. 26,000+ lives were saved; hundreds of thousands of plasma donations were facilitated. Won internal awards.
- Improved workflows on an open source **FHIR testing application built with React and Ruby**. Added test suites.
- Developed **React dashboards to enable microservice integration** and machine communication via REST APIs.
- Created a **React database search engine** to support pediatric oncology data sharing. Won internal awards.
- Added features to a complex **Vue and D3.js data visualization** dashboard with extensive data manipulation.
- Built **TF machine learning models** to minimize the novice-expert learning gap. Results spawned a MIP proposal.
- Served as **social chair**: planned interdepartmental social events and managed the social budget.

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.
- Users can create quizzes and view a BKT results dashboard indicating level of learning achieved after submission.

Google, **Angular**, *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**, *Intern — JavaScript, React, JSLayouts, protocol buffers*   *May 2018 - Aug 2018*
- Introduced **user moderation voting** and pending edit interaction to desktop Google Local Search.
- Increased rates of location edit approval; provides feedback to users. Resulted in 37,000+ additional votes/week.

EDUCATION

Williams College, B. A. — *Computer Science, Comparative Literature*   *Sep 2016 - June 2020*
- CS Class of '60s Scholar • Chinese-American Organization Co-chair • Underrepresented Identities in CS

Oxford University, *Williams-Exeter Programme at Oxford*   *Sep 2018 - June 2019*
- Oxford Women in CS • Oxford Women in Science and Technology • Turl Street Homeless Action

SKILLS AND INVOLVEMENT

Programming Languages: **JavaScript, TypeScript, HTML/CSS, Python,** Java, Swift, Kusto/SQL, Scala, R
Technologies: Git, React, Angular, Vue, Material UI, FireStore, D3.js, Power BI, Azure Databases, Agile Planning
Languages: English (Fluent), Spanish (Proficient), Mandarin (Limited Proficiency)
Awards: Generation Google/Google CSSI, Anita B.org Scholar, NCWIT Aspirations in Computing
Hackathons: Creatica, GraceHacks, Spectra 4.0 (**Mentor**) • OxfordHacks (**Staff**) • EphHacks **(Best Execution)** • HackRPI **(Funniest Hack)** • Hack Cambridge, HackNY, HackHarvard, HackGT, Hack the North **(Participant)**
Diversity and Inclusion in STEM: NCWIT Aspirations Application Reviewer, Hackathon Mentor, Intern Mentor

SELECTED PROJECTS

Gridiron Gauntlet *– Game Design, Gesture Recognition, Collision Detection*
- Single-player iOS clone of *Gridiron Gauntlet.* The player must avoid colliding with enemies 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