ALYSSA WANG

References available upon request.

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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 major internal awards.
- Led design work and improved workflows on an open source **FHIR testing app built with React and Ruby**.
- Developed **React dashboards to enable microservice integration** via REST APIs. Won major internal awards.
- Created a **React database search engine** to support pediatric oncology data sharing. Won internal awards.
- Developed key frontend features on a **Vue and D3.js data visualization** app leveraging novel data sources.
- Built machine learning models to minimize the novice-expert learning gap. Results spawned a MIP proposal.
- Served as **social chair**: collaboratively 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: TypeScript, JavaScript, HTML/CSS, Python, Java, Swift, Kusto/SQL, 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