

Alyssa Wang

Projects and references available upon request.

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<https://github.com/AlyssaWang>

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

EXPERIENCE

MITRE Corporation, Senior Software Engineer

June 2023 - present

- Led frontend development and design work on an open source **FHIR testing app built with React, Jekyll, and Ruby** that is used industry-wide for health IT standard testing. Won major awards.
- Performed and implemented feedback from **user experience reviews** to improve accessibility and meet 508 compliance standards for government sponsors and health IT developers.
- Implemented key displays, analyst workflows, and framework migrations on a **Vue and D3.js data visualization** app leveraging novel data to trace commercial power shifts. Won highest awards.
- Developed robust and effective forms, views, pipelines, etc. to enable dozens of **data manipulation capabilities** for end users across multiple workspaces.
- Enforced repository-wide **development best practices**, including testing, linting, and reducing reuse.
- Served as an **intern mentor** to support student developer growth and interviewed candidates for hire.

MITRE Corporation, Software Engineer

Aug 2020 - June 2023

- Architected **Power BI data visualizations** for COVID-19 plasma donation. Saved an estimated 26,000+ lives; facilitated hundreds of thousands of donation interactions. Won highest awards.
- Created **React dashboards to host microservice integration** for radio networking. Won major awards.
- Developed a **React database search engine** to support oncology data sharing. Won major awards.
- Built **TensorFlow machine learning models** to minimize the novice-expert learning gap during future planning knowledge transfers. Spawned a research proposal.
- Served as **social chair**. Collaboratively planned interdepartmental events and managed the social budget.

Williams College, Research Assistant — Angular, Firestore

Sep 2019 - June 2020

- Prototyped an Angular app to analyze **Bayesian Knowledge Tracing** as a method for evaluating learning by allowing users to create quizzes and admins to view levels of learning achieved after submission.

Google, Angular, Intern — Angular, Github API, GraphQL, NgRx, RxJS

June 2019 - Sep 2019

- Optimized data retrieval and storage on the **Caretaker Dashboard** to streamline the triage process.

Google, Local Search UI, Intern — React, JSLayouts, protocol buffers

May 2018 - Aug 2018

- Introduced **user moderation voting** and pending edit interaction to desktop Local Search, increasing edit approval rates and providing dynamic feedback to users. Resulted in 37,000+ additional votes/week.

Google, Chrome Metrics, Intern — JavaScript, Python, Polymer

May 2017 - Aug 2017

EDUCATION

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

Sep 2016 - June 2020

Oxford University, Exeter College — Williams-Exeter Programme at Oxford

Sep 2018 - June 2019

SKILLS

Programming Languages: TypeScript, JavaScript, HTML/CSS, Python, Java, Swift, Kusto/SQL, R

Technologies: React, Vue, Vuex, Angular, Material UI, D3.js, Git, Power BI, Firestore, Azure Databases, Agile

Security Clearances: Interim Top Secret (2023-present), Secret (2020-2023)