Marie Yu

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Education

University of Michigan *Ann Arbor, MI*   **GPA:** *3.78/4.0*   *April 2025*
  Bachelor of Science, Computer Science

Work Experience

Full-stack Software Engineer Intern (React, Redux, Typescript, Go)   *June 2025 - Aug 2025*
The New York Times, *New York City, NY*
- Created 4 prototypes of a new game feature using React, Typescript and Redux, writing up technical research documents, conducting 12+ user tests and presenting UI/UX findings to a cross-functional team of engineers and product designers.
- Implemented Redux functions, CTAs, and React UI components for displaying Strands user statistics, writing unit tests, storybook controls, and using a feature flag for rollout and A/B testing, resulting in a 27% lift in user registration rate.
- Utilized a pipeline in Go to store player statistics in AWS DynamoDB.
- Participated in AGILE development cycles, including sprint planning, backlog refinement and retrospectives.

Software Engineer (React, React Native, Typescript, Python, SQL, AWS, Cloudflare)   *Jan 2024 - Jan 2025*
The Michigan Daily, *Ann Arbor, MI*
- Implemented data scraper to display voting wait times to 586 readers with AWS Lambda, AWS EventBridge, and AWS S3.
- Brought in 15,958 users with a peak of 915 users in a day on The Michigan Daily's games by building the crosswords and games content management system using a Cloudflare SQL database, cron triggers and Typescript.
- Increased the number of images with alternative text to 79% on The Michigan Daily website by building an accessibility auditor using a Cloudflare SQL database and cron trigger to store alternative text data every day.
- Developed an email notification system scaling to 815 readers using Python and AWS SES for a React site deployed with AWS S3.
- Deployed 32 landing pages by building/maintaining an internal content management system using React and PostgreSQL.
- Led teams of 14 engineering members in 3 separate projects, guiding software design stages as well as code implementation.

Software Engineer (Typescript, Python, SQL, Docker)   *May 2024 - May 2025*
Detroitography, *Detroit, MI*
- Developed data collection service to store 300 user responses by building and maintaining a site using Typescript and PostgreSQL to store GeoJSON data, user data on opinions on cities and user knowledge of cities near Detroit.
- Developed a website that stores 455+ community organization service areas and allows for organizations to create and update their service areas using Typescript and PostgreSQL.
- Developed a data collection site on Detroit neighborhood boundaries with 1,442 responses using Typescript and PostgreSQL.

Full-stack Software Engineer Intern (React, Redux, Javascript, AWS, Firebase, NoSQL)   *May 2023 - May 2024*
Avenu, *Ann Arbor, MI*
- Developed app notifications using Firebase messaging, Google Cloud functions and AWS Lambda with AWS DynamoDB.
- Facilitated safe and stable payments of 5,346+ tickets by maintaining/debugging Stripe API payment processing integrations.
- Designed parameters and technologies for API integration with Ticketmaster into Firestore database by incrementally inputting 13,303+ events into the database with Google Cloud functions, substantially increasing the outreach and impact of the app.

Mobile Software Engineer Intern (React Native, Redux, Javascript, Firebase, NoSQL)   *May 2022 - May 2023*
Avenu, *Ann Arbor, MI*
- Optimized recommendation efficiency from 30 seconds to 5 seconds of over 2,000 discoverable users spanning 500+ shared events through reducing and paginating Firebase database reads and designing recommendation parameters.
- Increased loading speeds from 2 seconds to 1 second by implementing pagination through incremental Firebase database reads for guest lists, events, chats, and users.
- Implemented 100+ UI/UX changes and improvements for greater user experience and accessibility.

Skills

Technologies: React, React Native, Redux, PostgreSQL, MySQL, SQLite, Cloudflare, AWS Lambda, AWS EventBridge, AWS S3, AWS DynamoDB, AWS SES, Google Cloud App Engine, Docker, MongoDB, Firebase
Languages: Typescript, Go, C/C++, Python, HTML, CSS, SQL, NoSQL, PHP