Sabrina Xue

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EDUCATION

University of Michigan - Ann Arbor   Ann Arbor, MI
Bachelor of Science in Computer Science   August 2022 - May 2026
Relevant Coursework: Data Structures & Algorithms | Programming & Data Structures | Web Systems | User Interface Development | Computer Organization | Human-Centered Software Development | Intro to Artificial Intelligence | Discrete Math | Game Development
Leadership: Director of Web Dev - Kappa Theta Pi Professional Technology Fraternity | Web Dev Executive - Michigan Snowboarding Club

EXPERIENCE

Target Corporation   Minneapolis, Minnesota
Software Engineering Intern   June 2025 - August 2025
- Added full-stack serial number scanning feature in Android App Maestro for fraud protection, integrating backend and UI
- Achieved projected annual savings of $45M–$160M by reducing fraudulent returns with comprehensive serial number logging
- Enabled image display for regulated items in Maestro by updating backend data model, API response, and UI screens
- Wrote Kotlin unit tests, Compose UI tests, and performed regression testing to ensure feature reliability and app stability
- Integrated Android localization framework using string resources, improving multilingual user experiences for 40,000+ employees
- Implemented logging and monitoring with Grafana and Kibana, enabling performance tracking and backend issue diagnostics

Obce Na Wu   Prague, Czech Republic
Software Developer   Jan 2025 - May 2025
- Developed 30+ RESTful Flask API endpoints to support core admin functionality in a language-learning app, tested with Postman
- Engineered and implemented a PostgreSQL database with 15+ relational tables to support core platform features
- Built a system logging feature with SQLAlchemy to track backend events, supporting future filtering and UI display for diagnostics
- Collaborated with frontend developers and client stakeholders to refine API design and database schema for evolving needs

Ithaka Harbors, Inc.   Ann Arbor, Michigan
Software Engineering Intern   May 2024 - August 2024
- Deployed app that created dynamic AWS app configuration profiles with automatic documentation and repository mirroring
- Created and maintained GitLab CI/CD pipelines to automate deployment for 10+ apps for scalable, dependable, and efficient code
- Migrated 12 apps from Sidecar to Sirius, using VMware CloudHealth to identify a projected 120 thousand dollars in annual savings.
- Enabled New Relic trial for 60 apps on a production Kubernetes cluster by configuring an external secret and AWS SSM access

AMOpportunities   Chicago, Illinois
Software Engineering Intern   May 2023 - August 2023
- Used GitHub Actions to migrate 30+ code repositories from GitLab to GitHub while updating pipelines for each repository
- Configured observability for 12 applications with DataDog and AWS CloudWatch to enable application monitoring
- Operated serverless framework and Boto3 module to automate secrets per region with lambda functions for application maintenance
- Utilized AWS-CLI to dynamically build a new staging environment by automatically generating ports, listeners, and secrets

PROJECTS

Scalable Search Engine
- Built a scalable search engine with MapReduce, tf-idf, and PageRank, using a segmented inverted index engineered in Hadoop
- Developed an Index server as a REST API to return search results in JSON, optimizing queries across multiple segments
- Designed a dynamic Search server that made parallel REST API calls to Index servers, sorting and displaying results in HTML

EverLife App
- Consolidated health, wellness, and lifestyle resources into a user-friendly application tailored specifically for the elderly population
- Worked end-to-end in the production of an application operating Gantt charts, user surveys, Figma, Flutter, and Dart
- Documentation: concept proposal, project outline, user requirements, prototype, testing summary, video demonstration

PROFICIENCIES

- **Frameworks:** Kotlin, Compose (Jetpack Compose), C++, Python, JavaScript, Dart, React, HTML, CSS, Shell scripting, YAML
- **Cloud/DevOps:** AWS (EC2, SSM, Lambda, CLI), Kubernetes, Docker, GitHub Actions, GitLab CI/CD, Git
- **Monitoring/Management:** New Relic, DataDog, OpenLens, Grafana, Kibana, JFrog Artifactory, JIRA, Confluence, Agile