

# Sabrina Xue

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## EDUCATION

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### University of Michigan - Ann Arbor

*Bachelor of Science in Computer Science* | **GPA: 3.54/4.0**

Ann Arbor, MI

August 2022 - April 2026

**Relevant Coursework:** Data Structures & Algorithms | Programming & Data Structures | Web Systems | Computer Organization | Human-Centered Software Development | Intro to Artificial Intelligence | Intro to Computer Security | Discrete Math

**Leadership:** Director of Web Dev - Kappa Theta Pi (KTP) Technology Fraternity | Web Dev Executive Board - Michigan Snowboarding Club

## EXPERIENCE

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### Ithaca Harbors, Inc.

Ann Arbor, MI

#### Software Engineering (Platform Engineering) Intern

May 2024 - August 2024

- Deployed app that created dynamic AWS app configuration profiles with automatic documentation and repository mirroring
- Built downstream pipelines with automated image building, helm chart rendering, deployment to Kubernetes manifests, unit, and integration testing for 10+ apps
- Evaluated and presented APM tool New Relic to admin with user cases, contributing to the eventual purchase of software agent

### AMOpportunities

Chicago, IL

#### Software Engineering Intern

May 2023 - August 2023

- Designed, implemented, and maintained CI/CD pipelines for cloud-based apps to ensure rapid, reliable, and continuous delivery
- Utilized GitHub Actions to migrate 30+ code repositories from GitLab to GitHub while updating pipelines for each repository
- Refactored pipelines and workflows to deploy code to AWS using DataDog and AWS CloudWatch to alert cloud-based applications

## PROJECTS

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### 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
- Documented each stage of production, which consisted the following reports: [initial concept proposal](#), [project outline](#), [user requirements outline](#), [prototype](#), and [testing and debugging summary](#), which led to a [final video demo](#) and [final project repository](#)

### Organization Website Development

- Prototyped, brainstormed, designed, and developed a new website to be shown and visited by 200+ people ([GitHub repo](#))
- Applied React, Tailwind CSS, and Next.js to create the homepage, including animated attributes such as scrolling images
- Worked with a team of developers and product managers to track, monitor, document, and distribute work

### New Relic APM Instrumentation

- Encrypted New Relic license key with AWS parameters and GitLab secrets to extend functionality to 50+ software developers
- Dockerized and implemented an application to duplicate newly added New Relic configurations
- Deployed app to production and monitored reported statistics such as CPU usage, response time, error tracking, etc.

### Dynamizing and Streamlining Repos

- Operated serverless framework and Boto3 module to automate secrets per region with lambda functions for application maintenance
- Integrated Slack into repos by building changelogs applying to multiple pull requests to a single deployment
- Utilized AWS-CLI to dynamically build a new staging environment by automatically generating ports, listeners, and secrets

### Personal Website

- Designed and coded personal website from scratch using Figma, Canva, HTML, CSS, and Javascript ([GitHub repo](#))
- Publicized website on a personal domain with fully functional dynamic sections and animated buttons (<https://sabrinxue.com/>)
- Configured spreadsheets to store data inputted into the website with contact info and content (<http://tinyurl.com/bd375z36>)

### KTP Life App

- Implemented calendar-integrated widgets using Flutter and Dart for an app of 90+ users ([Application Download](#))
- Improved user experience for a published application by automatically presenting time-sensitive events on application display

## PROFICIENCIES

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- **Languages:** C++, YAML, NodeJS, HTML, CSS, React, Dart, Python, Shell script
- **Cloud platforms/DevOps/Operating systems:** AWS, Kubernetes, GitHub, GitLab, Docker, Linux, Windows, MacOS
- **Application monitoring/Issue management:** New Relic, OpenLens, JFrog (Artifactory), JIRA, Confluence, DataDog