

ELLA SUMMERHILL

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Education

University of Michigan

B.S. in Computer Science (College of Literature, Science, and the Arts)

Minor in Art and Design (STAMPS School of Art and Design)

Ann Arbor, MI

August 2020 – May 2025

Summa Cum Laude

- **Courses:** Data Structures and Algorithms, Computer Organization, Computer Security, Web Systems, Discrete Math, Software Engineering, Database Management Systems, Human-Centered Software Development, Creative Programming, Digital Image Making, Design Drawing

Experience

One Million by One Million (1Mby1M)

Menlo Park, CA

Artificial Intelligence/A.I. Startup Summer Intern

Remote | May 2023 – August 2023

- Evaluated and provided feedback on Udemy course content focused on tech-driven entrepreneurship and corporate development strategies for Silicon Valley startups.
- Identified areas for improvement in course structure, engagement, and clarity, enhancing learning experiences for aspiring entrepreneurs.
- Gained insights into startup ecosystems and A.I.-driven business models.

CodingPlusOne

Shanghai, CN

Curriculum Developer Summer Intern

Remote | May 2021 – August 2021

- Designed and developed engaging coding curriculum for primary school students, covering a plethora of programming languages, including but not limited to Python, C++, and JavaScript.
- Led remote interactive sessions teaching programming fundamentals to young learners.
- Conducted hands-on tutorials, enhancing students' understanding through structured lessons and real-world coding exercises.

Notable Projects

Sunrise – Capstone Project

EECS 497: Human-Centered Software Development

Swift, SwiftUI, Firebase, Xcode, Jira, Figma, GitHub

January 2025 – May 2025

- Collaborated in a team of five to design and build an iOS app supporting individuals experiencing violence and abuse, offering discreet emergency resources, journal features, and anonymous support forums.
- Led UI/UX planning in Figma, translating user-centered designs into interactive SwiftUI views.
- Implemented a secure backend using Firebase storage for journal entries, media uploads, saved resources, and user-authenticated content.

insta485 – Instagram Clones

EECS 485: Web Systems

HTML, CSS, Templates, Python, JavaScript, Shell Scripting, Flask, SQL, REST API, AJAX

August 2024 – December 2024

- Built a photo-sharing web application across three architectural stages: templated static site generation, server-side dynamic pages with Flask, and client-side dynamic pages with JavaScript.
- Gained hands-on experience with full-stack web development, RESTful routing, and templating systems.

Open Energy Dashboard (OED) – GitHub Contributor

EECS 481: Software Engineering

React, TypeScript, Redux Toolkit, Docker, PostgreSQL, GitHub

April 2025 – May 2025

- Contributed to an open-source sustainability dashboard used by universities and institutions to visualize energy usage.
- Improved UI logic and added validations to streamline the data conversion modals.
- Submitted changes via pull request, participated in code review, collaborated with maintainers, and conducted quality assurance testing.

Activities and Recognition

Take Care Student Art Exhibition

Flint / Ann Arbor, MI

Artwork Title: Progression

January 2025 – May 2025

- Selected for an interdisciplinary student showcase organized by the University of Michigan's Arts Initiative, Wolverine Wellness, and campus partners.
- Exhibited across two campuses, the piece explored themes of personal healing through visual storytelling.

Undergraduate Juried Exhibition

Ann Arbor, MI

Artwork Title: Smilodon

February 2023 – March 2023

- Chosen for a competitive juried exhibition recognizing excellence in interdisciplinary student artwork.
- Combined artistic technique with structural precision to communicate form and detail visually, demonstrating cross-disciplinary skills valuable in both design and technical fields.

Skills

Languages & Technologies: C/C++, Python, JavaScript, HTML, CSS, SQL, Typescript, Swift, React, Flask

Developer Tools: GitHub, VS Code, Xcode, AWS, Docker, Linux

Other Tools: Adobe Creative Suite (Photoshop, Illustrator, Premiere Pro), Microsoft Office Suite, Google Workspace