ELLA SUMMERHILL

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Education

University of Michigan   Ann Arbor, MI
B.S. in Computer Science (College of Literature, Science, and the Arts)   *August 2020 – May 2025*
Minor in Art and Design (STAMPS School of Art and Design)   *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