

# Ameilya Monson

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## SOFTWARE ENGINEER

Detail-oriented and highly motivated computer science graduate with a strong academic background, cum laude honors, and a passion for software development. Seeking a software engineering position to leverage my technical expertise, problem-solving abilities, and collaborative skills to contribute to innovative software solutions.

## EDUCATION

### Brigham Young University

June 2023

Bachelor of Science: Computer Science, Cum Laude

Provo, UT

- GPA 3.96
- Dean's List for College of Physical and Mathematical Sciences
- Clubs: Phi Eta Sigma National Honor Society, Women in Computer Science
- Relevant Courses: Foundations of Computer Science, Gaming Development, Data Structures, Discrete Structures, Computer Systems, Advanced Programming Concepts, Testing Analysis and Verification, Web Programming, Systems Programming, Graphics and Image Processing, Algorithm Design and Analysis, Software Engineering in the Real World, Computational Linear Algebra, Software Design, Introduction to Artificial Intelligence

### Weber State University

Apr 2019

Associate of Science, High Honors

Ogden, UT

- GPA 4.0
- Early college program, completed before earning high school diploma.

## SKILLS

**Programming Languages and Technologies-** Java, Python, C++, C, CSS, HTML, JavaScript, Git, Figma, Android Studios

## EXPERIENCE

### Brigham Young University Social Technology and Privacy Lab

Jan 2023- June 2023

*Research Assistant*

Provo, UT

- Took the lead in software development tasks for the Autism and Social Media research project, demonstrating strong problem-solving skills and serving as the primary developer for complex social media prototypes.
- Utilized a diverse range of programming languages and technologies, including Python, TypeScript, HTML, CSS, and OpenAI API integration, to engineer and optimize accessible social media features, enhancing the user experience for adults with autism.
- Collaborated effectively within a multidisciplinary research team, working closely with primary faculty, Dr. Xinru Page, to facilitate knowledge exchange and weekly discussions, resulting in refined project strategies and technical advancements.
- Co-presented pioneering research at a university-level Student Research Conference, showcasing a Chrome web extension designed to empower adults with autism in managing online social connections. The presentation highlighted technical achievements and their potential impact on user communities.

### Brigham Young University

Jan 2023-April 2023

*Software Engineering in the Real-World Teaching Assistant*

Provo, UT

- Managed a diverse portfolio of 12 student software projects, providing leadership and technical guidance to ensure effective project execution, adherence to software engineering best practices, and successful project outcomes.
- Demonstrated expertise in software engineering concepts and coding practices by offering valuable mentorship to students, including code review, debugging assistance, and guidance on software architecture and design.
- Created a dynamic learning environment within the Software Engineering in the Real-World course, immersing students in real-world software engineering challenges and enabling them to apply their technical skills to solve practical problems.
- Collaborated closely with Professor Bruce Webster, the course instructor, to enhance the course's technical content, address student inquiries, and ensure the curriculum's alignment with industry standards, contributing to the overall educational quality.

### Freelance Artist

May 2019-August 2020

*Graphic Design and other*

South Ogden, UT

- Created visually appealing assets, including logos and illustrations, using physical and digital tools.
- Managed clients, ensuring effective communication, requirements gathering, and on-time project delivery while applying user-centric design principles.

### Keyes Insurance Services

May 2018-September 2018

*Data Entry*

Riverdale, UT

- Ensured meticulous data accuracy and precision, maintaining error-free insurance system data entry with a keen eye for detail and adherence to quality assurance principles.

## VOLUNTEER EXPERIENCE

### Church of Jesus Christ of Latter-day Saints

August 2020-March 2022

### *Full-time Representative*

Laie, Hawaii and Manchester, England

- Demonstrated exceptional communication skills in engaging with diverse communities and conveying mission objectives, highlighting the importance of clear communication in software engineering teams.
- Exhibited strong leadership through training and mentoring fellow representatives, fostering a collaborative environment akin to mentorship and team leadership roles often found in software engineering.

## **PROJECTS**

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### **Secret Santa**

Sep 2022-Dec 2022

*Typescript, HTML, CSS*

Provo, UT

- Developed a user-friendly website, "Secret Santa," facilitating seamless anonymous gift exchanges for groups, including families and companies, addressing remote participation challenges.
- Utilized TypeScript, HTML, and CSS for front-end development, resulting in an intuitive and visually appealing user interface.
- Collaborated within a four-person team, focusing on front-end development and effectively coordinating tasks to meet diverse user group needs.
- Demonstrated adaptability by quickly learning and applying new technologies, such as Figma and TypeScript, to contribute effectively to the project's success.

### **Tweeter**

January 2023-April 2023

*Java, Android Studio, AWS*

Provo, UT

- Developed "Tweeter," a full-featured social media platform replicating core Twitter functionalities, using Java and Android Studio.
- Leveraged AWS tools including S3, API Gateway, SQS, Lambda, IAM, CloudWatch, and dynamoDB to create a robust, scalable platform for real-time status updates and dynamic follower interactions.
- Solely managed the project, optimizing status updates' efficiency and distribution, showcasing independent problem-solving skills.