

# Zach Thygesen

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## EDUCATION

**Texas A&M University** — College Station, TX

May 2024

**BS in Computer Science** — GPA: 3.9/4.0; Minor: Mathematics

**Relevant Coursework:** Data Structures & Algorithms, Programming Studio, Software Engineering, Human-Computer Interaction

**Activities:** The Turing Games 2022, TAMUhack 2022, HowdyHack 2021, Google Developer Student Club, Aggie Coding Club

## SKILLS

(*proficient*): JavaScript, HTML, CSS, React, Node, Express, C++, Java, Python, SQL, Git (*familiar*): TypeScript, Angular, Ruby on Rails

## EXPERIENCE

**Front-End Developer Intern**

May 2023 - August 2023

**American College of Radiology** — Reston, VA (*Remote*)

- Collaborated with developers, UI/UX designers, business analysts, and stakeholders to contribute to the front-end development of multiple in-house applications.
- Crafted engaging user interfaces, prioritizing accessibility and responsiveness across diverse screen sizes and devices.
- Took the lead on various projects, leveraging knowledge in HTML, CSS, JavaScript, and Git.

**Software Engineer Intern**

June 2022 - August 2022

**Arcanyx Technical Wizardry LLC** — San Francisco, CA (*Remote*)

- Wrote clean, reusable, and thoroughly tested code for a web application, ensuring high code quality standards.
- Engaged with tech lead in weekly meetings to discuss project progress, highlight successes, and plan next milestones.
- Gained technical experience using Rust, TypeScript, MySQL, React, MaterialUI, gRPC, Tonic, and GitLab.

**Mentor**

September 2021 - May 2022

**Aggie STEM MentorCorps** — College Station, TX

- Managed and instructed a grade school classroom of 30 students for two weeks each month, fostering discussion of STEM concepts to increase student enthusiasm.
- Coordinated hands-on experiments using Arduino boards, basic programming, and digital fabrication tools to enhance students' STEM confidence and performance.

## SOFTWARE PROJECTS

**Virtual Closet**

November 2022 - Present

- Collaborated with professional clothing stylist to identify and address their specific requirements.
- Devised and created a web app and backend to efficiently manage and monitor wardrobe items for stylist's clientele.
- Implemented interactive outfit canvas, enabling the stylist to create unique outfits using client's wardrobe items.
- In progress: implementing user authentication for stylist's clientele to access personalized closets.
- Utilizing Node, Express, React, Styled Components, MongoDB, and Google Cloud; hosted on Heroku.

**AI Central** (*for the American College of Radiology*)

June 2023 - August 2023

- Overhauled the HTML, CSS, and JavaScript for the ACR's existing AI Central website, revitalizing its aesthetic.
- Actively participated in several meetings with development, design, and marketing teams to assess and steer the current status and direction of application progress.

**Component Hub** (*for the American College of Radiology*)

May 2023 - June 2023

- Engineered a comprehensive component library comprising over 40 website components, fostering uniform styling across applications for all in-house software developers at the American College of Radiology.
- Orchestrated an intuitive, navigable, and well-documented application structure for efficient component management.
- Displayed all relevant code with each component along with a copy feature, significantly reducing development time.

**Parsons Mounted Cavalry Attendance**

January 2023 - May 2023

- Consulted with Texas A&M's Parsons Mounted Cavalry organization to design and implement a web application for scheduling and tracking daily activities of 100+ members.
- Assumed role of Scrum Master, leading regular stand-up meetings to monitor project progress and team contributions.
- Prototyped and implemented the primary scheduling feature of the application using Ruby on Rails, incorporating comprehensive unit and integration testing.
- Employed continuous integration/development pipeline on Heroku, ensuring delivery of high quality software.

**Restaurant Point of Sale System**

September 2022 - December 2022

- Utilized the Agile Scrum methodology to lead a small team in producing a mock point-of-sale app for a restaurant.
- Programmed full-stack features, compiled sprint backlogs, and generated burndown charts to track sprint progress.
- Deployed and built application using Node, Express, React, Java, PostgreSQL, Git, and Figma.