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 develop the front end of multiple in-house applications.
- Built engaging user interfaces that were accessible and responsive to various screen sizes and devices.
- Leveraged knowledge in HTML, CSS, JavaScript, and Git while taking lead on various projects.

Software Engineer Intern June 2022 - August 2022
Arcanyx Technical Wizardry LLC — *San Francisco, CA (Remote)*

- Wrote clean, reusable, and well-tested code for a web application.
- Met with tech lead weekly to discuss project progress, successes, and 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 taught a grade school classroom of 30 students two weeks a month while fostering discussion of STEM concepts to increase student enthusiasm.
- Coordinated experiments using Arduino boards, basic programming, and digital fabrication tools to enhance students' STEM confidence and performance.

SOFTWARE PROJECTS

Digital Closet November 2022 - Present

- Consulted with client (professional clothing stylist) to understand needs.
- Devised and implemented a web app and backend to manage and track closet items for stylist's clientele.
- Planned and began implementing additional features, including an interactive outfit personalization tool.
- Utilizing Node, Express, React, Styled Components, and MongoDB to construct application.

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 to revamp its looks and allow for monetization of application.
- Engaged in several meetings with development, designing, and marketing teams to review the current state and direction of application progress.

Component Hub *(for the American College of Radiology)* May 2023 - June 2023

- Constructed a component library containing over 40 website components for use by all in-house software developers at the American College of Radiology to maintain consistent styling across applications.
- Organized components into an intuitive, navigable, and well-documented application.
- Displayed all relevant code with each component along with a copy feature to greatly reduce development time.

Parsons Mounted Cavalry Attendance January 2023 - May 2023

- Consulted with Texas A&M's Parsons Mounted Cavalry organization to engineer a web application to schedule and track 100+ members' daily activities.
- Led several stand-up meetings every week as scrum master to monitor app progression and team contributions.
- Prototyped and implemented the primary scheduling feature of the application using Ruby on Rails, including thorough unit and integration testing.
- Employed a Heroku pipeline for continuous integration/continuous development to monitor project and ensure 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 developed burndown charts for each sprint.
- Deployed and built application using Node, Express, React, Java, PostgreSQL, Git, and Figma.