

Dylan Harden

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Education

Texas A&M University

Expected May 2023

- Bachelors of Science in Computer Science (3.58 GPA), Minors in Math & Cybersecurity

Relevant Coursework

- Software Engineering, Data Structures & Algorithms, Computer Systems, Design & Analysis of Algorithms, Computer Organization, Programming Languages, Programming Studio

Work Experience

Charles Schwab, Software Engineering Intern

06/2022-08/2022

- Worked within a Scrum team on an Angular microservice for Schwab Advisor Services to allow advisors to vote on european proxy events for securities in their managed accounts
- Developed UI logic for 3 different types of users (Schwab Employees, Firm Advisors, Firm Security Admins) to enable unique functionality and permissions for each
- Assisted in UI/UX design by critiquing UI design proposals to allow for an intuitive and consistent experience
- Wrote Jasmine tests to validate all functionalities of each user story above an 85% coverage threshold

Projects

TAMU Horticulture Club Tracker

Ruby on Rails, React, Bootstrap

- Semester long Agile project to design and develop a web application that allows the Horticulture Club to track member attendance, and publish events/plant sale information
- Leveraged Ruby on Rails MVC to achieve CRUD functionality across 6 models
- Integrated Google OAUTH to attain secure login for club admins

TravelEZ Travel App

HTML/CSS, Javascript, Nodejs/Express

- Travel agency app which allows users to search for hotels, flights, or destination information
- Integrated 5 APIs into singular backend to achieve broad functionality

Ray Tracer

C++

- Written from scratch Ray Tracer that manually calculates the color of each pixel on the screen using 3D vector collision detection with a sphere, ellipsoid, plane and mesh
- Renders 8 different scenes of planes, spheres, and meshes with shadows and reflections

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React, Tailwind

- Designed & developed personal website to showcase various projects and skills

Technical Skills

Languages & Frameworks: C++, Python, Javascript, React, Angular, HTML/CSS, Nodejs, Express, Typescript, Jasmine, Java, Ruby on Rails, PostgreSQL

Tools: Git, Github, Agile Methodologies, Jira/Confluence/Bitbucket, Figma, UI/UX Design, JSON