

Casey Root

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<https://caseyroot.com/>

Skills

.Net Core, .Net Framework, C#, REST APIs, MVC, Web Forms, Unit Testing, HTML, CSS, JavaScript, jQuery, SQL, T-SQL, Oracle SQL, Git, Azure DevOps, Agile, Project Management, Data Structures, Object Oriented Programming

Professional Experience

Software Developer

Texas Tech University – Lubbock, TX

June 2021 – Present

- Developed three REST APIs used to interface with data needed by Texas Tech University applications, improving programmability and maintainability.
- Developed two console applications that maintain and backup crucial data that Texas Tech University depends on and previously required time extensive manual entry.
- Utilize integration testing to save time and greatly reduce the chance of bugs making it into production.

Software Developer Student Assistant

Texas Tech University – Lubbock, TX

February 2021 - May 2021

- Created a Single Sign On registration website to help automate a previously manual process carried out by department management.
- Displayed an extraordinary ability to learn rapidly and adapt to new technologies.

Research Assistant

Data-Intensive Scalable Computing Laboratory (DISCL) at Texas Tech University – Lubbock, TX

January 2021 – May 2021

- Developed an API for monitoring system statuses at the High Performance Computing Center.

Data Analyst Intern

Texas Commission on Environment Quality – Austin, TX

June 2020 - August 2020

- Inspected and merged permit, incident, and investigation records, exceeding quotas for duplicate removal from the agency's enterprise database.
- Demonstrated an exceptional ability to follow established procedures and processes.

Education

Bachelor of Science in Computer Science

Texas Tech University

May 2021

Personal Projects

Lecture Listener

Python, Google Speech-to-Text, AWS RDS, AWS S3

Senior Capstone Group Project to translate speech to closed captions. Uses Google Speech-to-Text for audio translation, AWS RDS to store user information, and AWS S3 to store transcript and audio recordings.

Image Renderer

C++

Takes a Digital Elevation Map file and turns it into a virtual image from a selected perspective.

Awards

President's Honor List - Texas Tech University

May 2019 - August 2020

Rank of Eagle Scout - Boy Scouts of America

December 2015