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Clay Smith

LinkedIn
GitHub

EDUCATION

Georgia Institute of Technology

Graduation — May 2024

- Bachelor of Science in Computer Science
- GPA: 3.93

TECHNICAL SKILLS

Programming Languages: Java, C++, C, C#, OCaml, Python, SQL, HTML, CSS, JavaScript
Technologies/Environment: Windows, Linux, Git, ASP.NET, Angular

EXPERIENCE

Azenta Life Sciences

June 2022 — August 2022

IT Application Development Intern

South Plainfield, NJ

- Employed C# to assist in developing the company's online ordering and management system built on the ASP.NET framework.
- Debugged and maintained the web application solving numerous front and back end errors as well as updating various document templates, email templates and email parameters.
- Worked with internal clients to develop reports using SQL Server Reporting Services that allowed the client to quickly access valuable information about customers and company attributes.

PROJECTS

Crack Detection Algorithm Performance Evaluation System

- Directed and collaborated with a team of 3 other students in developing a website that allowed users to download data sets, upload their algorithm's results, evaluate those results and compare performance via a dynamic leaderboard.
- Leveraged Typescript and the Angular framework to architect and implement the frontend components.
- Utilized Python and Flask to develop a RESTful API, connected to a SQLite database to power the backend functionality.

Ray Tracer

- Developed a path tracer using C++ capable of simulating lighting effects such as global illumination, refraction, and diffuse and specular reflections to create realistic images.
- Employs multi threading and bounding volume hierarchies to significantly improve run time.
- Supports wide range of geometry including, Polygon Meshes, Spheres, Triangles, Rectangles and Planes.

Mountain Climber

- Developed and designed an Android app using Java and Android Studio allowing users to track and record their routes and progress as they hike various mountains.
- Displays information about each hike and uses Google Maps to display and passively track the users location as they climb verifying when they reach the summit.
- Employed AWS S3 in order to store user hike data as well as information about various mountains.

Oat Compiler

- Developed a compiler and typechecker in OCaml for the oat programming language as part of a class on compilers.
- Supports a range of data types including, ints bools, strings, arrays, and structs as well as the most important features of procedural programming in conditionals, loops, functions, and recursion.