Andy Strong

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OVERVIEW:

Sophomore in Computer Science (BS 2025 projected) seeks practical experience in related field of work to enrich my education, save additional money for college, and gain experience working in a team environment.

Skills: C++, Python, JavaScript, OpenGL, Git, Node.js, HTML, CSS, Express.js, PostgreSQL

EDUCATION:

University of Colorado at Boulder, College of Engineering & Applied Science   2021 - 2025 (expected)

B.S. in Computer Science   *Boulder, CO*

- **GPA: 3.97**
- Relevant Coursework: Algorithms, Data Structures, Discrete Structures, Computer Systems, Linear Algebra, Human Computer Interaction (HCI), Software Dev. Methods and Tools, Introduction to Robotics

WORK EXPERIENCE:

Code Ninjas   June 2020 - Aug 2022

Code Sensei   *Louisville, CO*

- Taught kids aged 6 - 14 basic JavaScript through web game development. Worked with other Code Senseis to lead various summer camps and tailor the curricula to the skills of the current group. Summer camps include, but are not limited to:
    - Making Minecraft modifications using MCreator, Game development in Roblox using Roblox Studio, 3D design using Tinkercad

RELEVANT PROJECTS:

3D Building Game   Aug 2022 - Feb 2023

Individual Project

- Created a Windows desktop game without a game engine (from scratch) where the player can use a variety of building blocks to create a 3D scene. The player can save these scenes and also destroy them in real time. Project is featured on my GitHub page (with video demo).
- Notable features: Physics Engine, 3D Collision Detection, OpenGL Graphics
- Technologies used: C++, GLEW, GLFW, GLM

Visify   Jan 2022 - May 2022

Group Project

- Collaborated with group members to develop a music visualization web application. The user can create an account, upload music from Spotify, then view visualizations created dynamically by the application for each song.
- Features I worked on: Account Creation, Account Information Storage (PostgreSQL database), Request Handling (on Node.js backend)
- Technologies used: JavaScript, HTML, CSS, Express.js, Node.js, PostgreSQL

Twitter Graph Visualizer - Hackathon   March 5 2023

Group Project

- Developed a web application for visualizing tweets, quote tweets, and retweets during HackCU 2023.
- Made requests to Twitter API using Axios. Used JSON response to create nodes on screen (representing tweets) with React.js. Users can click a node to fetch retweets and quote tweets of original tweet.
- Technologies used: JavaScript, React.js, Axios, HTML, CSS

Portfolio Website   March 2023 - Present

Individual Project

- Creating a website to showcase all of my projects, and learn more about web development. Website is hosted on GitHub.
- Technologies used: JavaScript, HTML, CSS