

Shubha Swarnim Singh

2112 Cleveland Blvd 947, Caldwell, Idaho | shubhaswarnimsingh@gmail.com | +1 986 666 3464

[LinkedIn](#) | [GitHub](#)

Education

The College of Idaho, BS in Computer Science and Business Administration August 2022 – May 2026

- Honor's GPA: 3.74/4.0
- **Coursework:** Design and Analysis of Algorithm, Numerical Computation, Data Manipulation and visualization, Abstract Algebra, Linear Regression, Abstract Algebra, Applied Databases

Projects

Senate Voting System GitHub

- Engineered a high-accuracy, low-latency online voting system using Node.js, Express, and SQLite, ensuring real-time vote processing and fault-tolerant infrastructure.
- Designed a scalable WebSocket-based architecture for instant vote updates, maintaining 99.99 percent system uptime under high concurrency.

In-Memory Search Engine GitHub

- Developed a high-performance in-memory search engine in Python that indexes and searches text files with sub-millisecond query times.
- Implemented recursive directory crawling to parse .txt files, building an efficient word-based inverted index.

Investment Calculator GitHub

- Analyzed 2,500+ NASDAQ stocks to identify those with a 10+ year uptrend.
- Designed an algorithm to support consistent, data-driven investment decisions.

3D Model for Dorms In Progress

- Creating a 3D model for dorms in our college using Node.js, JavaScript, and Blender and collaborating with the IT department to integrate it into the official college website. The project is designed for over 800 students at the College of Idaho.

Experience

IT Intern, College of Idaho Dec 2022 – May 2024

- Deployed MFA on 1,000+ devices, achieving 90% success with secure token validation.
- Redeveloped biological species database with 1M+ records.

Alumni & Events Technician, College of Idaho Dec 2022 – Present

- Provided technical support at major alumni events, including a \$1.12M fundraiser.
- Enhanced alumni database for better outreach.

Leadership

- **ASCI Treasurer (2024-Present) & Senator (2022-2024):** Managed \$100K budget, ensuring effective fund distribution and financial transparency; previously served as a Senator.
- **Consul, Sigma Chi (2025-2026):** Led the fraternity, overseeing operations and brother development.
- **Resident Assistant (2022-Present):** Built inclusive community, resolved conflicts, and mentored peers.
- **President, Boxing Club (2023-Present):** Restarted and grew the club and built a supportive fitness community.

Skills

Skills: Python, JavaScript, NodeJS, EJS, SQL, SQLite3, HTML/CSS Technical Skills