Shubha Swarnim Singh

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Education

The College of Idaho, Computer Science and Business Administration   August 2022 – May 2026
- Honors Student, Dean's List, Honor's GPA: 3.77/4.0

Experience

Data Analyst Intern, Albertsons Companies   June 2025 – Present
- Developed Power BI and OMNI dashboards enriched with ML forecasts (Random Forest, XGBoost) to analyze $2B+ sales across 2,200+ stores, enhancing category strategy and CAPEX decisions.
- Automated store segmentation and financial modeling for a multi-year Butcher Block plan targeting $1K PWPS.
- Applied clustering and geospatial analysis to define consumer/store archetypes and optimize merchandising.

IT Intern, College of Idaho   Dec 2022 – May 2023
- Deployed MFA on 1,000+ devices, achieving 90% success with secure token validation.
- Maintained 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.

Projects

Senate Voting System   **GitHub**
- Engineered a full-stack online voting app 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% system uptime under high concurrency.

In-Memory Search Engine   **GitHub**
- Developed a high-performance in-memory file system 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; designed for over 800 students at the College of Idaho.

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.

Technical Skills

Programming Languages: Python, JavaScript, PHP
Web Development: HTML/CSS, BootStrap, Websocket
Frameworks: NodeJS, ExpressJS, AngularJS, Flask
Databases: SQL, SQLite3   **Version Control**: Git/GitHub
Tools & Analytics: Power BI, OMNI, Tableau, Excel
Machine Learning: XGBoost, Random Forest, K-means, SHAP, Scikit-learn