

Aayush Shrestha

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Education

The College of Idaho

Bachelor's in Computer Science and Mathematics

Exp Graduation May 2026

Minors: Art & Design, Psychology

- GPA: 3.863 / 4.0 · Dean's Honors List
- **Leadership:** Coding Club Vice-President · Coding Nights Facilitator · Build-Your-Brand 101 Instructor

Technical Skills

Programming: Python (Advanced), Java, Ruby, C, Prolog

Web Development: HTML, CSS, JavaScript, TypeScript, PHP, Node.js, Express.js, React, Bootstrap

Data & ML: SQL, SQLite, SSMS, R, NumPy, Pandas, Matplotlib, tidyverse, tidymodels

Tools & Technologies: Git, GitHub, Docker, Azure DevOps, Figma, Photoshop, Excel, L^AT_EX

Work Experience

Software Engineer Intern | React, TypeScript, Python, Azure DevOps

St. Luke's Health System

Jun 2025 – Present

Boise, ID

- Used React and TypeScript to develop an internal pharmacy application, streamlining workflows via Azure DevOps pipelines, which reduced manual processing time by 35%.
- Leveraged Copilot Spaces and modern AI tools to conduct research and prototype AI-driven features, which improved team development efficiency by approximately 25%.
- Performed data analysis and built visualizations using Python and SQL to uncover trends, enabling data-driven decisions that contributed to a 15% reduction in resource allocation errors.

Network Engineer Intern | Cisco IOS, Orion, Netmiko

St. Luke's Health System

Jan 2025 – Aug 2025

Boise, ID

- Improved network segmentation and routing by configuring VLANs, STP, and dynamic protocols (EIGRP, OSPF), increasing routing efficiency by 30%.
- Developed Python and PowerShell-based automation scripts to streamline switchport cleanup, config backups, and device onboarding, reducing manual effort by 40%.
- Enhanced infrastructure reliability by documenting IDF layouts, updating network diagrams, and assisting with software upgrades and patch rollouts, maintaining 99.992% uptime.

Projects

Senate Voting Tool | Node.js, SQLite, Git

[Github](#) 

- Created a secure web-based voting tool for student body Senators to cast votes after authentication, with results visualized in real time, which reduced groupthink by more than 90%.
- Included user management features for secretaries, developed using Node.js, SQLite, and JavaScript, which positively impacted the efficiency of the voting process by 30%.

trAide - AI Trading Tool | Python, NumPy, Dash

[Github](#) 

- Developed an AI-powered trading tool that enhanced trading accuracy by 25% by dynamically marking entry points, exit points, and stop-losses on a live graph for active trading scenarios.
- Implemented with Python and Dash, ensuring real-time calculations with 99.9% precision.

CofI MAPS Profiles | PHP, SQLite, HTML, CSS

[Github](#) 

- Built a dynamic academic profile submission platform using PHP and SQLite, allowing student uploads and admin actions (approve, disapprove, delete), which reduced profile management time by over 60%.
- Secured the application with session-based admin login and implemented filtering, search, and major-based views, improving profile discoverability and admin efficiency by 40%.

Certifications

Python Certificate

[HackerRank](#) 

SQL (Intermediate) Certificate

[HackerRank](#) 