Aayush Shrestha

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Technical Skills

Programming: Python (Advanced), Java, Ruby, C, Prolog
Web Development: HTML, CSS, JavaScript, TypeScript, PHP, Node.js, Express.js, Bootstrap, Dash
Data & Analytics: SQL, SQLite, NumPy, Pandas, Matplotlib, R, tidyverse, tidymodels
Tools & Technologies: Git, GitHub, Docker, Figma, Photoshop, Excel, LaTeX

Education

The College of Idaho   *Exp Graduation May 2026*
Bachelor's in Computer Science and Mathematics
- GPA: 3.863 / 4.0 · Dean's Honors List
- **Leadership:** Coding Club Vice-President · Coding Nights Facilitator · Build-Your-Brand 101 Instructor

Projects

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.

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%.

Personal Portfolio Website | HTML, CSS, JavaScript   *Github* ⬈
- Designed a personal portfolio website using HTML, CSS, and JavaScript, featuring a responsive design and dynamic project showcases that increased user engagement by 50%.
- Integrated an engaging 'Contact Me' section using JavaScript and particles.js animation effects, creating an interactive user experience that boosted visitor engagement metrics by 35%.

Work Experience

Network Engineer Intern | Cisco IOS, Orion, Netmiko   *St. Luke's Health System*
2025 – Present   *Boise, ID*
- Enhanced network efficiency by configuring VLANs, Spanning Tree Protocol (STP), and dynamic routing protocols (EIGRP, OSPF), improving network segmentation and routing by 30%.
- Optimized infrastructure management by documenting IDF layouts, updating network diagrams, and implementing cable management best practices, reducing troubleshooting time by 25%.
- Strengthened network security and reliability by assisting in software upgrades, patch management, and rollback procedures, ensuring 99.992% uptime and minimizing downtime risks.

Learning Coach | Python, Calculus   *The College of Idaho*
2023 – 2024   *Caldwell, ID*
- Provided one-on-one and group support for Python programming, debugging, and problem-solving, helping over 90% of students improve their coding skills by at least one letter grade.
- Designed and delivered workshops on programming fundamentals, leveraging tools like Jupyter Notebook and VS Code, which resulted in a 20% increase in student participation in coding-related activities.
- Partnered with the accessibility team to develop digital resources, improving campus-wide technical learning programs and increasing accessibility for over 30% of students with learning disabilities.

Certifications

Python Certificate   *HackerRank* ⬈
SQL (Intermediate) Certificate   *HackerRank* ⬈