

# Dristanta Silwal

Moscow, ID | (512)-956-1935 | [LinkedIn](#) | [Github](#) | [Personal](#)

## EDUCATION

### University of Idaho

Moscow, ID

Bachelor's of Science, Computer Science (Hons.)

CGPA: 3.57

Recipient of University Honors Program Undergraduate Research Grant - March 2024 | Awarded Outstanding First-Year

Student/Valkyries - April 2024 | Dean's List - August, 2023 | Idaho Mining Association Scholarship | IPO Scholarship

## PROJECTS

### [Grant Budget Generator](#)

- Full-stack web app in PHP, MySQL, JavaScript for managing research grants per Federal guidelines.
- Features user authentication, AJAX budgeting forms, Excel report downloads.
- Emphasized database integrity, secure sessions, and automated budget checks.

### Antivirus Deployment System

- Developing a predictive model to forecast virus transmission and optimize antivirus deployment.
- Implementing SEIR framework and machine learning for enhanced accuracy.
- Using Python and Matplotlib to visualize infection trends for public health interventions.

### Job Tracker Web Application

- Built a full-stack web application using React and MongoDB to track job applications and interview schedules.
- Designed a user-friendly interface, increasing user engagement by 30%.
- Integrated Restful API and CRUD operations for efficient data management and user experience.

## WORK EXPERIENCE

### Student Researcher

Feb 2024 - Present

- Led the development of a machine learning algorithm for an antivirus system, securing a \$998 Undergraduate Honors Research Grant, with plans to present at ICUR.
- Presented the Research in Idaho Mining Conference 2024 which has more than 700 attendees.
- Trained a model that improved efficiency by 10%, leading to faster threat detection.
- Built a web application for 145 clients, enhancing accessibility to the system.

### Technology Service Partners Assistant

Nov 2024 - Present

- Partnered with tech service teams to streamline maintenance, boosting efficiency and cutting response time.
- Assisted in troubleshooting partner-reported issues, enhancing reliability and user experience.
- Monitored system metrics to address issues proactively, ensuring consistent uptime.
- Coordinated cross-functional support for IT incidents, providing clear communication and resolution follow-ups.

### Admin Operations Assistant

Aug 2024 - Present

- Managed lost and found database, streamlining item retrieval and increasing efficiency by 25%.
- Oversaw computer lab maintenance, reducing downtime by 30% through prompt issue resolution.
- Improved real-time communication by 15% by optimizing the building's radio network.
- Streamlined supply inventory tracking, enhancing availability and restocking accuracy by 20%.

## LEADERSHIP & INVOLVEMENTS

### Media & Technology Committee Member - Nepali Students' Association

Feb 2023 - Present

- Current Web Master, Helped organize Taste of Nepal 2023, 2024, Cruise the World 2023, Promotion Coordinator for TON 2025.
- Started LinkedIn Page which has followers' growth rate of 22%.

### International Peer Mentor - International Program Office

March 2024 - Present

- Facilitated the transition of incoming international students by guiding campus resources and cultural adjustment, enhancing their integration, and building a supportive community.

### Historian - Phi Eta Sigma Honor Society

Sept 2023 - Aug 2024

- Documented bi-weekly team meetings and club records, successfully tabled Winter Social 2024.

## SKILLS & INTERESTS

**Programming:** Python, C/C++, Javascript (React JS, Angular). C#

**Database:** MySQL, MSSQL, MongoDB, SQLite **Others:** Linux, Unix, Windows, .NET, XML, Git, Github, Azure, Docker, AWS

**Soft Skills:** Communication, Problem Solving, Leadership, Critical Thinking, Attention to Detail

**Hobbies:** Blogging ([Hashnode](#)), Games Development, Travelling, Biking, Networking