Aneesha Shrestha

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EDUCATION

B.S. in Computer Science
B.S. in Political Science   Expected: May 16, 2026
University of Idaho

Certifications

Microsoft Office Specialist: Word Associate (MO-100)	September 2022
Microsoft Office Specialist (MOS): PowerPoint Associate	September 2022

SUMMARY OF RESEARCH SKILLS

Grant and proposal writing, research methodology and design, software engineering, cost effective analysis, and project management.

GENERAL SKILLS

Principal languages: C/C++, Python
Intermediate proficiency: SQL, R, Java, React.js
Basic Familiarity: JavaScript, CSS, HTML, C#
Miscellaneous Software: Unity, myPGAdmin, MyPHPAdmin, XAMPP, Adobe Photoshop
Conversant in Nepali

RESEARCH INTERESTS

Type III DFIG Wind Turbine test bench software development.
Social and educational impact of AI and other related technologies.
Quantitative finance and stock trading algorithms.

AWARDS AND HONORS

- Vandal Pride scholarship
- University of Idaho Honors College

GRANTS

- Office of Undergraduate Research $1,000 research grant
  - Type III DFIG Wind Turbine Test bench research
  - Advanced wind turbine research and clean energy efficiency
  - Created software for a laboratory sized wind turbine

RESEARCH EXPERIENCE

Type III DFIG Test Bench Undergraduate Researcher   August 2022 – December 2023
University of Idaho Center for Secure and Dependable System and Schweitzer Engineering Labs, Moscow ID
- Created software to run a model wind turbine for Schweitzer Engineering Lab's research
- Wrote a successful grant proposal for $1,000
- Implemented an embedded system on a microcontroller onto wind-turbine hardware
- Drafted technical reports documenting workflow and progress

Quant Finance Coder   October 2024 - Present
Barker Trading Club, University of Idaho
- Coded a risk management system for a stock trading algorithm
- Placed top 5 in the national Southeastern Hedge Fund competition
- Researched stock market trends, general indicators, and applied new knowledge to algorithm implementation

TEACHING & MENTORING EXPERIENCE

Computer Science Tutor   Spring 2023 - PRESENT
Gamma Phi Beta, Xi Chapter
- Tutored members of Gamma Phi Beta Xi chapter on introductory courses such as CS 120 and 121
- Individual 1 on 1 tutoring session lasting anywhere from 30 minutes to 2 hours
- Assisted members of the chapter on homework assignments related to introductory level CS courses

PROFESSIONAL EXPERIENCE
Intern   May 2024 – August 2024

Idaho Human Rights Commission, Boise ID
- Investigated civil rights complaints for employment discrimination across Idaho
- Reviewed and organized case files
- Processed 20 case summaries in 4 months, double the required amount for a full-time investigator
- Communicated complex legal policy and arguments in a clear and accessible manner
- Applied legal framework to claims across various professional industries
- Completed intensive diversity, equity, and inclusion trainings

Stagehand   September 2024 - December 2024
University of Massachusetts – Amherst Fine Arts Center, Amherst MA
- Collaborated with a team to ensure seamless, discreet, and efficient backstage operations during live performances
- Worked shifts on my feet lasting anywhere from 6-8 hours
- Set up and took down stage lights, professional dance mats, theater seats, etc.
- Learned and used basic stage terms

PUBLICATIONS AND PRESENTATIONS
Publications - N/A
Oral Presentations
- University of Idaho Undergraduate Research Symposium
  - Moscow ID
  - April 24, 2023
  - Type III DFIG Test Bench

ACADEMIC AND COMMUNITY SERVICE
Barker Trading Club (January 2025 – Present)
Gamma Phi Beta Xi Chapter – Belonging, Equity, Diversity and Inclusion chair (August 2022 – Present)
Society of Women Engineers (September 2022 - Present)
Associated Students of the University of Idaho – Senator (September 2023 – December 2023)