

# Shruti Debnath

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## EDUCATION

University at Idaho | *Recipient of the Invitation to Idaho Scholarship*  
*Bachelors in Computer Science; GPA: 3.41/4.0 (Dean's List: 3/7 semesters)*

Idaho, USA  
August 2022 – Present

## TECHNICAL SKILLS

**Programming:** C/C++/C#, Python, JavaScript, HTML/CSS, Dart  
**Database:** MongoDB, MySql, SQLite  
**Development:** Node.js, ReactJS, Bootstrap, Flutter, RESTful APIs  
**Dev Tools:** Git, VS Code, Unity,  
**Others:** Data Structures And Algorithms, Object Oriented Design

## EXPERIENCE

**SI-PASS Leader**  
*University of Idaho | College Success (Tutoring)*

Aug 2024 – Present  
Idaho, USA

- Strengthened **leadership** and facilitation skills by guiding students through interactive learning sessions.
- Improved communication and adaptability by supporting diverse students with varying learning needs and also developed problem-solving abilities.

**Facilities Team Lead**  
*University of Idaho | University Housing*

Summer 2024, 2025  
Idaho, USA

- Supervised** and coordinated a team of **30 staff members** during peak summer operations, ensuring cleaning standards, safety protocols, and task efficiency.
- Trained new hires, delegated responsibilities, and maintained a positive work environment, resulting in improved team performance and service quality.
- Recognized as **Employee of the Month** (August 2024) for exemplary leadership, reliability, and dedication to maintaining high standards.

## PROJECTS

**Generate Test cases for software development**  
*| In-progress (Capstone Project)*

- Capstone project focused on building automated tools to generate software test cases, reducing reliance on manual testing and improving overall QA efficiency.

**My FUN Portfolio**  
*| In-progress | HTML, Tailwind CSS, REACT, Git*

- Building a Netflix-inspired portfolio showcasing previous work with dynamic cards, responsive layouts, and smooth animations using **React** and **Tailwind CSS**.

**Barter App**  
*| Flask, Python, HTML, SQLite, Git*

- Built and deployed a **full-stack** app using Flask (Backend) and HTML/CSS/JS (Frontend) for Web Application.
- Developed a barter platform enabling users to securely exchange goods, listing items, admin control and code based confirmation.
- Designed intuitive UI components focused on clean user experience. Integrated **SQLite**, showcasing backend experience in database design and **REST APIs**.

**Combat Game**  
*| Unity, C#, Git*

- Led** a team of seven, in creating a Unity-based 2D combat game.
- Took charge for UI/UX, Testing my portion, Team management and git structure.

**E-commerce Website**  
*| FastAPI, REACT, MySQL*

- Collaborated** with a team to build a scalable e-commerce platform using FastAPI (backend) and React (frontend).
- Designed and implemented the **MySQL** database, ensuring optimized schema, relationships, and queries for seamless data handling.

**Invisible Cloth using Python**  
*| OpenCV, Numpy, Python*

- Developed an interactive Python-based color-detection project using **OpenCV**, **NumPy** and real-time image processing. Emphasized clean code practices and problem-solving with Python.

## RELEVANT COURSEWORK

Data Structures and Algorithms	Object Oriented Programming	Database Management Systems
Operating Systems	Software Engineering	Compiler Design
Computer Architecture	Applied Data Science with Python	Secure Coding