

Shruti Debnath

LinkedIn: shrutidebnath224
GitHub: github.com/shruti-246

Mobile: +1 986-600-8506
Email: debnathshruti477@gmail.com
Moscow, ID 83843
Portfolio: ShrutiDebnath.com

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.

Math Assistance Center (MAC) Tutor
University of Idaho | Mathematics Tutoring

Oct 2025 – Present
Idaho, USA

- Provided drop-in tutoring and one-on-one support for students in various mathematics courses.
- Helped students strengthen **problem-solving** and **critical thinking** skills by guiding them through coursework and homework challenges.
- Created a welcoming and **collaborative environment** that encouraged engagement and confidence in learning math.

PROJECTS

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. **Deployed** through Render.
- Designed intuitive UI components focused on clean user experience. Integrated **SQLite**, showcasing backend experience in database design and REST APIs.

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.

Combat Game

Unity, C#, Git

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

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.

Other Notable Work

Git, Flutter, Dart, REACT, Tailwind CSS, JS, Python - OpenCV, NumPy

- Portfolio & UI Experiments:** Built personal portfolio apps using **Flutter & Dart** for **cross-platform** deployment and created a Netflix-inspired responsive web portfolio with **React & Tailwind CSS**; both hosted via GitHub Pages to showcase UI design and deployment skills.
- Invisible Cloth (Computer Vision):** Created a Python-based object detection demo using **OpenCV** and **NumPy** for real-time background replacement and image manipulation.

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