SHRUTI DEBNATH

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Computer Science
Undergraduate Student
Junior

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EDUCATION

University of Idaho – Present

Bachelor of Computer Science – 3.30
- Dean's List

NOTABLE PROJECTS

- **Barter App (2025):**

My group working on creating a Barter App for trading in iOS and Android by using SQL, HTML, CSS.

- **Legend of Warriors (2025):**

I am leading a group of seven, where me and my group implementing a creative version of combat-adventure game using C# and Unity.

- **Pong Game (2025):**

Created a two-player Pong game using Unity, where I wrote C# scripts to bring the gameplay to life. I added a convenient Help Screen and also features a Quit option through the Escape key, allowing players to exit smoothly. For the UI, I made the most of Unity's Canvas system to create panels and text for the help screen.

- **Sudoko Solver (2024):**

Created and developed a Sudoku solver using Prolog as a way to dive into more complex algorithms and logic programming. This experience helped me deepen my knowledge of functional programming and improve my testing skills.

- **Operating System (2024):**

Worked on simulating operating system processes with an emphasis on scheduling, concurrency, and improving algorithms. Enhanced my C programming and debugging abilities through practical projects.

- **Movie Recommendation App by using API (2024):**

Created an application using Node.js and Python, featuring user authentication through OAuth and deployed on Heroku. Boosted user engagement by building an API-driven recommendation system.

- **Designed game ideas (2023):**

Designed and developed a pet game using the concept of linked lists, providing users with interactive pet care and engagement. Implemented features allowing users to feed, play, and interact with their virtual pets. Utilized strong programming skills in implementing data structures. Additionally, an immersive escape game experience with multiple rooms, treasures, and challenges. Crafted a captivating gameplay experience by implementing engaging puzzles and potential hazards. Demonstrated creativity, attention to detail, and the ability to create an enjoyable user experience. Created engaging board games featuring unique gameplay scenarios. Enhanced problem-solving and teamwork abilities by implementing innovative coding solutions.

- **Invisible Cloth Python Project (2021):**

Designed and developed a Python project called "Invisible Cloth" for experimental purposes. Created a code that effectively removes the red color from the screen, allowing for the customization of the target color. Demonstrated strong proficiency in Python programming, problem-solving, and creative thinking.

- **Water Purifier (2018):**

Led a team in the development of a model utilizing solar energy and an open field to purify water. Presented the project at the National Science and Technology Fair 2018, where it received a nomination. Demonstrated a strong understanding of renewable energy systems and their application in sustainable water purification.

COURSEWORK

COMPLETED
- Operating System
- Programming Languages
- System Software
- Linear Algebra
- Computational thinking and Problem Solving
- Computer Science I & II
- Computer Organization and Architecture
- Secure Coding

ONGOING
- Programming Languages – R, C#, HTML, CSS
- Database Management System – SQL
- Software Engineering and Analysis of Algorithm

EMPLOYMENT

- **SI-PASS Leader – Present**

I developed my leadership and facilitation skills by helping students understand the course materials during interactive sessions. I also improved my communication and adaptability by supporting diverse groups of students with varying learning needs.

- **Peer Mentor – Present**

I developed my mentorship and counseling skills by helping peers set and reach their academic and personal goals. I also improved my interpersonal skills by working with students from various backgrounds.

- **Building service specialist – Seasonal**

I enhanced my teamwork and leadership skills by leading a team at the University of Idaho. I also improved my organizational and communication abilities through effective task delegation.

CORE SKILLS

- Programming: Python, C++, C, Prolog, Node.js, HTML, JavaScript, SML, C#, SQL, CSS
- Data Structures & Algorithms, Operating Systems, Debugging
- Tools: Git, Heroku, Microsoft Excel, Teams, PowerPoint, Latex

SOFT SKILLS

- Communication | Collaboration | Time Management
- Leadership | Adaptability | Detail-oriented | Innovative

ACHIEVEMENT

- **Employee Recognition (2024)**

Employee of the month on January newsletter 2024.
Employee of the month on June newsletter 2024, for assisting in leading a crew of up to 30 people in summer.

- **1st National Youth Summit on SDGs. (2022)**
- **Dean's List**
- **Nominated for Honor Society**
- **Best artist certificate by KPR International Virtual Art Exhibition. (2022)**
- **Nominated for National Science and Technology Fair. (2018)**

Profiles

https://www.linkedin.com/in/shruti-debnath-186b40229/
https://github.com/shruti-246