Nilava Saha

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Work Experience

UTeach Outreach, College of Natural Sciences *Content Intern / Developer*
Austin, TX — (512)-471-4992 Sep 2024 – Apr 2025
- Collaborated with college students and assisted in teaching and developing lesson plans.
- Developed a website using HTML, CSS, and JS to prevent confusion while students are in the field.

UTeach Outreach Summer Camps *Assistant Teacher / Mentor*
Austin, TX — (512)-471-4992 Jun 2023 – Aug 2024
- Taught Python and other STEM concepts through interactive hands-on lessons.

Walmart Supercenter *Front-End Associate*
Pflugerville, TX — (512)-252-0112 Jul 2021 – Sep 2023
- Provided leadership to a dynamic team of 8-12 front-end associates, offering guidance and support

Education

University of Texas at Austin Aug 2021 – May 2025
B.S. Computer Science
Relevant coursework: Data Structures, Operating Systems, Computer Architecture, Web Applications, Mobile Computing, Debugging, Energy Efficiency, Cloud Computing, Ethical Hacking, Algorithms

Projects

Discord Integration and Automation Mar 2024 – Present
- Developed a custom bot, in Python, utilizing multiple APIs for music streaming, search functionalities, and game server management, with a small deployment servicing 50 end-users.

Personal and Professional Webpage Development Sep 2024 – Present
- Developed web pages using HTML, CSS, and JS to display personal merits
- Deployed a web page serving approximately 40 users per college semester.

Cloud Deployment and Infrastructure Management Sep 2024 – Present
- Deployed and hosted a website using Google Cloud Console with CI/CD pipelines managed through Jenkins, Kubernetes, and Git.
- Utilized AWS services for database management and scalable information storage.

Godot + Unity Game Development Aug 2023 – Dec 2024
- Modified the open-source Godot engine to implement custom engine elements
- Created a framework game using VR technologies developed in Unity

Virtual Mouse Oct 2023
- Acquired proficiency in Google's Mediapipe framework and their TensorFlow implementation
- Utilized Computer Vision and Multi-Threading to implement a virtual mouse for Windows seamlessly in Python

PintOS Jan 2023 – May 2023
- Expanded a rudimentary operating system in C by adding memory management which includes virtual memory and page faulting. Converting a single-threaded file system into a multi-threaded, multi-level index. In addition to optimizing scheduling

Skills

Languages: C, Python, Java, JavaScript, HTML, CSS, ACL2, Lisp, Kotlin
Framework Flask, Google Firestore, NodeJS, Kubernetes
Development: Git, Google Console, Kubernetes, AWS