

Nilava Saha

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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

Work Experience

UTeach Outreach, College of Natural Sciences

Content Intern / Developer

Austin, TX — (512)-471-4992

Sep 2024 – Apr 2025

- Developed a mapping software using HTML, CSS, and JS, servicing 40 students per semester.
- Collaborated with college students and assisted in teaching and developing lesson plans.

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

Projects

Custom Discord Assistant Bot—*VS Code, Git, Python*

- Developed a personal assistant, in Python, utilizing multiple RESTful APIs such as spotify and scryfall for music streaming and search functionalities.
- Scripted and used CLI modules to handle server management that deploys and takes down services as needed based on demand. With a small deployment servicing 50 end-users.

Webpage Development—*VS Code, Git, DuckDNS, HTML, CSS, JS, LaTeX*

- Utilized apps such as Figma, Penpot, and Canva to develop a simplistic front-end design.
- Deployed an online portfolio using HTML, CSS, and JS that displays personal achievements and career history.

Cloud Design and Deployment—*VS Code, Bitbucket, Python, Kubernetes, Jenkins, WSL, Docker*

- Developed and deployed a containerized Python web app using Docker, Kubernetes, and Helm that utilizes REST dynamic endpoints to create a scalable cloud-native architecture
- Utilized CI/CD workflow by using Docker images and updating via Kubectl and Helm

Godot + Unity Game Development—*VS Code, Github, C++, Open-Source*

- Customized the open-source Godot engine by modifying core C++ modules to support tailored rendering and input features

Virtual Mouse—*VS Code, Github, Python, Mediapipe, Tensorflow*

- Developed a virtual mouse for Windows in Python using Google's Mediapipe and TensorFlow, leveraging computer vision and multithreading for seamless performance.

Skills

Languages: Bangla(Native), C, Python, Java, JavaScript, HTML/CSS, ACL2, Lisp, Kotlin, Bash

Skills: UI/UX Design, Technical Design/Testing/Reporting, Agile, Computer Vision, Automation, Office 365, Autodesk Family, Server Management, Version Management, DevOps, CI/CD

Tools: Git, Kubernetes, AWS, Visual Studio, API/REST, React, TensorFlow, Google Console, Jenkins