Nilava Saha

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Education

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

Skills

Languages: Bangla(Native), C, Python, Java, JavaScript, HTML/CSS, ACL2, Lisp, Kotlin, OpenGL, Bash
Skills: UI/UX Design, Technical Design/Testing/Reporting, Agile, Computer Vision, Automation, Word, Excel, PowerPoint, CAD, Server/Version Management, DevOps, CI/CD, SQL, R
Tools: Git, Kubernetes, AWS, Visual Studio, API/REST, React, TensorFlow, Google Console, Jenkins, Docker

Work Experience

UTeach Outreach, College of Natural Sciences — *Full-Stack Dev/Teacher*   2023 – 2025
- Designed and developed a mapping software application using HTML, CSS, and JavaScript, aligning the project with Software Development Life Cycle best practices and serving 40 students per semester.
- Collaborated with college students and assisted in teaching by developing lesson plans using personalized learning methodologies, improving student engagement and understanding of the material
- Delivered interactive Python sessions and STEM lessons, enhancing student engagement and understanding through practical exercises and real-world applications
- Mentored a diverse group of 20-30 students in STEM subjects, leveraging agile teaching methods.

Walmart Supercenter — *Front-End Associate*   2021 – 2023
- Led a dynamic team of 8-12 front-end associates, providing guidance and support to foster a positive working environment, resulting in improved team morale and efficiency.

Projects

Personal Automated Assistant—*VS Code, Git, Python, Agile*
- Developed a personal assistant, in Python, utilizing multiple RESTful APIs for music streaming and search functionalities while maintaining an Agile development process.
- Procured and used Unix Bash scripting to handle server deployment and management. That fluctuates resource use based on demand. With a deployment servicing 50 end-users.

Full-Stack Development—*VS Code, Git, DuckDNS, HTML, CSS, JS, Latex, Flask*
- 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 while using a public DNS protocol.

Cloud Based Design and Deployment—*VS Code, Bitbucket, Python, Kubernetes, Jenkins, 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
- Prioritized CI/CD workflow by using Docker images and updating via Kubectl and Helm

Game Engine Development—*VS Code, Github, C++, Open-Source*
- Engineered an open-source engine by modifying core C++ modules to support tailored rendering and input features

Computer Vision—*VS Code, Github, Python. Mediapipe, Tensorflow*
- Procured skills in computer vision in Python using Google's Mediapipe and TensorFlow, leveraging efficient programming and multi-threading for seamless performance.