Nilava Saha

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Summary

Full-stack development and cloud architecture experienced Backend Developer. Have done system integration with modern LLMs to create an optimal system compatibility experience desire to create scalable system design and automation.

Work Experience

H-E-B — *Personal Shopper*   Sep 2025 – Present
- Provided excellent customer service by addressing special requests, substitutions, and inquiries.

UTeach Outreach, College of Natural Sciences — *Full-Stack Dev/Teacher*   Jun 2023 – Apr 2025
- Developed interactive map utilities and web applications with HTML, CSS, and JavaScript, and maintained 99% uptime for 40+ students per semester.
- Collaborated with stakeholders in gathering and presenting technical solutions in accordance with SDLC best practices such as version control, testing, and deployment.
- Maintained the official UTeach Outreach website with new improvements and updated content for enhanced user experience and accessibility.
- Managed legacy codebase for maintenance and code review, ensuring system stability and enforcing coding guidelines.

Walmart Supercenter — *Front-End Associate*   Jul 2021 – Sep 2023
- Directed and oversaw 8–12 associates, resulting in improved team productivity and customer satisfaction through quality training and task assignment.

Projects *(Titles link to source code)*

Personal Automated Assistant — *VS Code, Git, Python, Agile*
- Designed a Python-powered personal assistant with text-command functionality, leveraging RESTful APIs to stream music and answer questions.
- Automated server deployment and scaling through Bash scripts on Unix platforms, scaled to 50+ concurrent users, with demand-driven resource utilization.

Full-Stack Development — *VS Code, Git, DuckDNS, HTML, CSS, JavaScript, LaTeX, Flask*
- Created and hosted a number of web applications, including portfolio sites and work projects using HTML, CSS, and JavaScript, with 500+ page views with better performance and SEO.
- Created UI mockups in Figma and Canva to design a responsive layout showing personal projects, skills, and resume.

AWS and Google Cloud Deployment — *VS Code, Bitbucket, Python, Kubernetes, Jenkins, Docker*
- Implemented and running a containerized Python web application using Docker, Kubernetes, and Helm, leveraging REST dynamic endpoints to construct a cloud-native, scalable architecture
- Implemented a CI/CD pipeline with Jenkins and Helm and automated Docker builds and rolling updates through kubectl commands.

AI Deployment and Development — *VS Code, Huggingface, LLM, LoRA, Python, Pytorch*
- Integrated legacy systems with modern LLMs to create a seamless link to enhance user experience while maintaining backward compatibility with existing infrastructure.
- Scaled a modern LLM for a customer service scenario with LoRA to improve responses for FAQs, complaints, and product inquiries.

Education

University of Texas at Austin — *B.S. Computer Science*   2021 – 2025
Operating Systems, Computer Architecture, Ethical Hacking, Cloud Computing, Algorithms, Mobile Computing, and 5+ more...

Skills

Languages: Python, C, C++, C#, Java, JavaScript, Kotlin, HTML/CSS, Bash, ACL2, Lisp, SQL, R
Frameworks: React, Flask, Node.js, Docker, Kubernetes, Jenkins, Git, GitHub, AWS (EC2, S3), Google Cloud Console, REST APIs, VS Code, Helm, Llama, Pytorch, Tensorflow
Additional: CI/CD, DevOps, Secure Coding, Server Management, UI/UX Design, Agile, Scrum, Testing & Reporting, Networking, Automation, Figma, Canva, Linux