SHAYANA SHRESTHA

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EDUCATION

The University of Tennessee, Tickle College of Engineering   Knoxville, Tennessee
Master of Science in Computer Science   Graduation: May 2026

Tribhuvan University, Prime College   Kathmandu, Nepal
Bachelor of Science in Computer Science and Information Technology   October 2017 - August 2022

EXPERIENCE

The University of Tennessee, *Tickle College of Engineering*   Knoxville, Tennessee
Graduate Teaching Assistant   August 2024 – Present
- Supported instruction for 90–115 students in Software Engineering and Fundamentals of Digital Archaeology, providing mentorship, resolving coursework challenges, and facilitating discussions to enhance engagement and problem-solving.
- Graded assignments and exams with consistency, delivering constructive feedback to promote student growth and critical thinking.

Knoxville Utilities Board (KUB)   Knoxville, Tennessee
Applications Developer Student   May 2025 – August 2025
- Developed and enhanced features in KUBApps using Java, Ember.js, and APIs, including debugging, maintenance, and updating token retrieval scripts across repositories for secure endpoint access while collaborating in a Scrum environment.
- Expanded knowledge of KUB's application architectures and applied agile practices through participation in sprint planning, stand-ups, and reviews.

Hitachi Energy   Kathmandu, Nepal
Associate Software Engineer   August 2022 – July 2024
Intern Software Engineer   March 2022 – July 2022
- Led end-to-end development of a web application, including architecture design, technology stack selection, and component interaction.
- Implemented security measures, performed unit, integration, and end-to-end testing to ensure application reliability and protection against vulnerabilities.
- Maintained and enhanced the performance of existing software (TRMTracker), while conducting code reviews to ensure quality and coding standards.
- Assisted in timely project delivery with collaboration in Agile teams.

SKILLS

- **Programming Languages:** Python, C, C++, PHP, SQL, Java
- **Web Development:** HTML, CSS, JavaScript, jQuery, DHTMLX, WordPress, Ember, React, RestAPIs
- **Version Control & CI/CD:** Git, SVN
- **Project Management & Collaboration:** Jira, Trello
- **Other Skills:** SEO, Adobe Photoshop

LEADERSHIP

Graduate Society of Women Engineers (GradSWE)   Knoxville, Tennessee
Vice President   January 2025 - Present
Prime IT Club   Kathmandu, Nepal
General Member – Editor – Marketing Director   June 2018 – June 2022