PRANITA KHANAL

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Education

University of Texas at Arlington — **Arlington, TX**
Bachelor of Science in Computer Science — *Aug 2023 - May 2027*

Relevant Coursework

- Data Structures and Algorithms
- Object-Oriented Programming
- Operating Systems
- Fundamentals of Software Engineering
- Data Bases
- Theoretical CS
- Assembly Language Programming

Work Experience

Department of Physics — **The University of Texas at Arlington**
Student Administrative Support — *Jan 2024- Dec 2025*

- Independently managing all undergraduate labs, creating lab materials, setting up experiments, creating new labs and updating lab manuals.
- Designing equipments on AutoCad, Lab Administration and Logistics, fixing equipments and inventory management from Pasco.
- Technical software management, System oversight, Equipment testing, Software testing.

Projects

Maverick Online Entertainment System | *Java* — **Oct 2024**

- Designed and built a Java-based media management system with OOP (inheritance, polymorphism), modular ArrayList usage, file I/O, JavaDoc, and efficient regression testing.
- Developed an intuitive menu-driven interface and executed sprint-based development across UI, persistence, and threading.
- Ensured robust data handling and scalability through tester-backed iterators, modular design, and agile lifecycle practices.

Checkers | *Java, CSS, HTML, JS (Group Project)* — **March 2025**

- Implemented three gameplay modes (PvP, PvBot, Bot vs. Bot) with clean state logic and AI transitions.
- Produced project artifacts—requirements, state diagrams, UI visuals—for formal documentation.
- Coordinated data handoff to the database team, enabling seamless frontend-backend integration.

Full-Stack Grocery Store Management System | *SQL, PHP* — **Sep 2025**

- Designed a full grocery store database from scratch, turning complex EER diagrams into a working system with 13 different tables .
- Built a custom web dashboard using PHP and SQL so users can easily search for, add, or update inventory items in real-time
- Wrote advanced SQL queries and created views to automatically track store revenue and vendor performance metrics and tested the system against strict integrity rules.

Technical Skills

Languages: Python, Java, C, JavaScript, C++, SQL, PHP, Assembly, R, HTML/CSS
Developer Tools: VS Code, XAMPP, Webstorm Git, Github, Linux
Frameworks and Libraries: React.js

Leadership / Extracurricular

Project Instructor — **Kathmandu, Nepal**
UK SARAID, The Japan Foundation — *2018- 2020*

- Coordinator for SMART Camp, and served as Assistant Instructor for SMART's international COVID-19 session with cross country research teams.
- Instructed one of the HANDS selected Collaborative Action Challenge(CAC) projects, "SMART 2019" for the Kathmandu district which was completed with around 150 participants.