

# PRANITA KHANAL

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## Education

### University of Texas at Arlington

Bachelor of Science in Computer Science

Arlington, TX

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

Student Administrative Support

The University of Texas at Arlington

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.