Tiloschan Karki
(737)-3446458 | tiloschankarki@gmail.com | [LinkedIn](#) | [Bitbucket](#)

EDUCATION

Bachelor of Science in Computer Science (Data Analytics minor) with Honors   May 2026
Texas State University   *San Marcos, Texas*

- TXST Presidential Scholarship, Dean's List 2022-2024
- Cumulative GPA: 3.58
- Relevant Coursework: Object Oriented Programming with C++ and Java, Data Structure Algorithms, Computer Architecture, Assembly Language and System Fundamentals, Discrete Mathematics, Probability and statistics, Internet Software Development using MERN stack, Machine Learning, Data Mining and Info retrieval

EXPERIENCE

Physics Undergraduate Instructional Assistant   Aug 2022 – Present
Texas State University   *San Marcos, TX*

- **Guided** students in mastering fundamental physics concepts and enhanced their **problem-solving** abilities.
- Improved student performance by an average of **30%**, with those under my instruction **consistently** achieving higher scores than their peers.
- Taught effective use of lab equipment, providing hands-on experience while integrating **Excel** for **advanced data analysis** and **pattern recognition**.

Front-end Web Developer Intern   Oct 2020 – Oct 2021
Hungerend Foods Inc   *Kathmandu, Nepal*

- **Collaborated** with senior developers to design and build a dynamic website using **HTML, CSS, JavaScript**, **React.js** and various **Rest APIs** reducing the overall time for the website deployment by **25%.**
- Regularly updated website content to better meet customer preferences effectively increasing the **user engagement.**
- Enhanced the user interface **(UI/UX)** to improve website performance, leading to a more seamless user experience.

Assistant Manager   May 2019 – Aug 2020
Krishala Constructions Pvt. LTD   *Kathmandu, Nepal*

- Managed sales operations within the construction industry and aided in reduction of costs upto **18%** per annum.
- Developed and maintained databases to track product inventory, analyze sales trends, and calculate net and gross profits, contributing to informed decision-making and increased profitability through **analytical skills.**

CERTIFICATION AND SKILLS

- **Programming Languages**: C++, Java, JavaScript, Python, HTML, CSS, SQL, MIPS, Mongo DB
- **Frameworks, IDE**: AngularJS, React JS, Node.JS, Visual Studio Code, Bitbucket, Jira, GitKraken, AWS, Rest APIs, DevOps, Search Engine Optimization, Sublime Text, PyCharm, OOP in Java and C++, DBMS (MongoDB), Flask
- **Certificates and Training**: 100 Days of Python (UDEMY), Core Concepts AWS(CLF-C01), JavaScript essential training (LinkedIn Learning), Postman API fundamentals Student Expert, Node.JS essential training (LinkedIn)

PROJECTS

- **Python and flask Project (A travel app):**
  Created a software application with a **team** using **Python** and **Jira** as agile environment where a user can navigate and plan his/her trip with the group. The app features multiple features such as music, language translation, planning an itinerary, **Planning Poker** etc. which helps user in quick decision-making skills and aids users by saving costs. **Jira** was used to create tasks and **Gitkraken** to work on different branches with **VSCode** as the **IDE** and using **Git** technology
- **Python Projects:**
  Developed applications such as Hangman, Blackjack, a coffee machine etc. with extensive function and modular programming in Python using PyCharm showcasing **Programming skills**.
- **DSA Projects (Movies Recommender using C++)**
  Developed Searching and sorting data management system in C++ using multi-file development which was implemented to recommend movies and shows to the user reducing the browsing time by more than half, Developed codes to implement hashing, maps, and other DSA techniques to searching, sorting and stacking given data using vector and arrays by focusing on time complexity to **achieve fastest runtime**.
- **Java Projects (Bookstore Project and graphic calculator)**
  Developed a fully functional graphic calculator using Java and implementing **UI/UX principles** and **OOP** Developed a small bookstore data management system where user could buy a books and stationery items and there would be a report showing the sales and the inventory which can be **tailored** to any **small-scale database**. Developed code using **DSA** in JAVA and OOP to create visually sorting graphs based on user preference.

EXTRACURRICULAR ACTIVITIES

- Active Member of IEEE TXST (a computer organization in TXST active in career-oriented Workshops)
- Member of Rotaract Club in High School contributing for the societal development (Aug 2019- Dec 2021)