Tiloschan Karki

(737)-344-6458 | [tiloschankarki@gmail.com]( ) | [LinkedIn]( ) | [Portfolio]( )

Education

Bachelor of Science in Computer Science (Data Analytics Minor) with Honors
Texas State University | GPA: 4.0
Scholarships and Achievements: TXST Presidential Scholarship, Dean's List (2022-2025)
Relevant Coursework: OOP with C++ and Java, Data Structures, Algorithms, Computer Architecture, Discrete Mathematics, MERN Stack, Machine Learning, Data Mining & Information Retrieval, SDLC, OOP with Python

Experience

Physics Undergraduate Instructional Assistant
Texas State University, San Marcos, TX | Aug 2022 – Present
- Led students in physics problem-solving, increasing conceptual comprehension and application skills.
- Conducted lab sessions integrating Excel for advanced data analysis, improving research proficiency.
- Facilitated student engagement, boosting class performance metrics by 30%.

Front-end Web Developer Intern
Hungerend Foods Inc, Kathmandu, Nepal | Oct 2020 – Oct 2021
- Developed a fully responsive website using React.js, streamlining customer interactions and product discovery.
- Optimized UI/UX design, improving load speeds and accessibility, leading to a 20% increase in user engagement.
- Implemented real-time API integrations for dynamic content updates, enhancing functionality.

Projects:

Portfolio Website (*Django, PostgreSQL, React, Render, Vercel, GitHub*) – *Completed Feb 11, 2025*
- Designed and deployed a full-stack portfolio website integrating a Django backend with PostgreSQL.
- Utilized React.js for the frontend hosted on Vercel and seamless backend deployment using Render.
- Implemented API-driven architectures for real-time updates and dynamic content rendering.
- Automated continuous deployment with Render, ensuring seamless updates with each commit.
- Configured containerization using Docker for local development consistency and smooth deployment.

Travel Planning Chatbot (*Python, Flask, Jira, GitKraken, Bitbucket, Firebase*) – *Completed Dec 6, 2024*
- Built an AI-powered travel assistant that personalizes itineraries and suggests cost-effective plans.
- Implemented location-based recommendations, language translation, and group collaboration features.
- Created a Planning poker feature allowing multi-user access through parallel programming.
- Leveraged Flask for backend services, enhancing performance and scalability.

Movie Recommender System (*C++, DSA*) – *Completed May 12, 2023*
- Developed an advanced movie recommendation engine using data structures and algorithms.
- Implemented sorting techniques, hashing, and indexing for optimized search and retrieval.
- Improved search efficiency, reducing browsing time by 50%.

AI-Powered Resume Screener (*Python, OpenAI API, FastAPI, React*) – *Completed Sep 27, 2024*
- Developed an AI-driven resume screening tool using OpenAI's API to analyze and rank resumes based on job descriptions.
- Implemented FastAPI for backend processing and React for an interactive frontend user experience.
- Enabled automated candidate filtering, reducing manual screening time by over 60%.

Skills & Certifications:

Programming Languages: C++, Java, JavaScript, Python, HTML, CSS, SQL, MIPS, MongoDB,
Frameworks & Tools: React.js, Next.js, Angular, Node.js, Flask, Django, Git, Bitbucket, Jira, REST APIs, Docker, Kubernetes, CI/CD, Node.js, PostGreSQL, SQlite, PowerQuery, Agile Development, API creation, NumPy & Scikit, Data Mining and Visualization using Orange, REST Servers
Certifications: 100 Days of Python (Udemy), JavaScript & Node.js Essentials (LinkedIn Learning), Postman API Fundamentals Student Expert, AWS CCP modules

Extracurricular Activities

- Active Member, IEEE TXST – Engaging in career-oriented workshops and networking events.
- Rotaract Club Member (2019-2021) – Led community development initiatives and social projects.