Shashanka Luitel

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EDUCATION

Kathmandu University　　　　　　　　　　　　　　　　　　　　Dhulikhel, Nepal
Bachelor of Computer Engineering　　　　　　　　　　　　　　*Dec. 2020 – Aug 2025*
- GPA: **3.69 / 4.0**

DAV College　　　　　　　　　　　　　　　　　　　　　　　　Lalitpur, Nepal
+2 Science, NEB　　　　　　　　　　　　　　　　　　　　　　　*2018 – 2020*
- CGPA: **3.76 / 4.0**

EXPERIENCE

Software Engineer　　　　　　　　　　　　　　　　　　　Apr. 2025 – Dec 2025
Citytech Group Pvt. Ltd.　　　　　　　　　　　　　　　*Kamaladi, Kathmandu*
- Contributed to the development and enhancement of remitPulse, a production-level fintech admin portal used for remittance and compliance workflows
- Implemented Redux for global state management and handling asynchronous API calls
- Analyzed and modified existing stored procedures, gaining hands-on experience with MS SQL queries
- Tested and validated APIs using tools such as Postman and Swagger
- Actively participated in Agile workflows including daily standups, sprint planning, tasks ticketing, git branching, pull requests, and peer code reviews via GitHub

PROJECTS

Trek Diaries - Social Media Platform for Trekking Enthusiasts | GitHub | Demo
Tech Stack: Next.js, TailwindCSS, NeonDB, DrizzleORM, Cloudinary, NextAuth, Expo, Redis, Algolia
- Built a trekking-focused social platform enabling users to share posts and interact through likes and comments
- Integrated a recommendation system to personalize content and enhance user experience
- **Mobile App** : GitHub

Battleship - Multiplayer Strategic Game | GitHub | Demo
Tech Stack: React.js, Node.js, MongoDB, Socket.io
- Developed a browser-based multiplayer tactical game where players command fleets of warships
- Implemented turn-based gameplay with logic to track guesses, hits, misses, and fleet destruction conditions

Gas Leakage Detection System | GitHub
Tech Stack: C++
- Developed a gas leak detection system using Arduino Simulino Uno and MQ-2 gas sensor for monitoring gases
- Simulated the system to detect gas presence and trigger audible and visual alerts for improved safety

Flight Delay Data Visualization | GitHub | Demo
Tech Stack: Streamlit, Python
- Developed a comprehensive data mining and visualization dashboard to analyze historical flight data
- Processed key metrics including delay durations, cancellation reasons, and temporal trends
- Identified actionable patterns to provide insights on flight delays and cancellations

Maze Runner - 2D Simulation Game | GitHub
Tech Stack: Python
- Developed a 2D car simulation game using Python, Pygame, and PyOpenGL
- Players navigate a car through a maze to reach the finish line

RESEARCH WORK

Digital Health in Nepal: Past, Current and Future Scenarios. Survey paper, Department of Computer Science and Engineering, Kathmandu University. Link

Ethics of Modern Media Provocation. Link

Technical Skills

Programming Languages: JavaScript, Python, C/C++, C#, SQL, HTML, CSS
Frontend: React.js, Next.js, Ant Design, Redux and Redux Toolkit, Expo, React Native, TailwindCSS, Shadcn UI
Backend: Node.js, Express.js, Flask, Socket.Io
Database: MySQL, PostgreSQL, MongoDB, Redis, Firebase, Appwrite
Tools: Git and GitHub, Unity, Docker, Swagger, Postman, Streamlit, DataGrip, Android Studio

Soft Skills

Communication, Collaboration, Presentation, Problem-solving, Teamwork, Time Management

Extracurricular Activities

Developer Lead   Aug. 2024 – Dec 2024
IT MEET 2024

- Leading a team of developers to build and maintain a fully responsive and dynamic website of IT MEET 2024, which is an annual, national-level event organized by Kathmandu University Computer Club (KUCC)
- Collaborating with the design team to ensure seamless UI/UX across all devices

Beta Microsoft Learn Student Ambassador   Nov. 2023 – Mar 2025
MICROSOFT (MLSA)

- Conducted workshops and events in multiple institutions to empower students to cultivate early coding habits
- Received training and resources from Microsoft to enhance technical skills and leadership abilities

Designer Sub-Lead   Sep. 2023 – Oct 2023
KU HACKFEST 2023

- Designed visual assets for the event, ensuring alignment with the overall theme and objectives
- Collaborated with other teams to maintain a consistent and cohesive event presentation

Graphic Designer Lead   Oct. 2022 – Dec 2022
IT EXPRESS 2022

- Assisted in the publication of the IT Express Journal using Adobe InDesign and other design tools
- Contributed to improving the magazine's visual layout and presentation

Certifications

Basic concept of AI and ML [(Link)](#)
Neural Network and Deep Learning [(Link)](#)
Principles of UX/UI Design [(Link)](#)
React Native [(Link)](#)

Languages

Nepali [Native]   **English** [Fluent]   **Hindi** [Fluent]   **German** [Learning]   **French** [Learning]