Aashista Karki

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Date of birth: 26/03/2003 **Nationality:** Nepalese

ABOUT ME

A driven developer with robust technical skills in web and mobile development. Proven track record of innovative project creation, strong programming expertise across multiple languages, and active involvement. Committed to continuous learning and professional growth.

WORK EXPERIENCE

Softwarica College of IT and E-commerce

City: Kathmandu | **Country:** Nepal

[2023]

Volunteering

-Worked as a member of media club in college

-Writing blogs and articles about recent activities in college and inform about upcoming programs

-Working with other club members in a team

Kitwosd IT Support Center

City: Lalitpur | **Country:** Nepal

[01/05/2025 – Current]

Flutter Intern

-Flutter app dev for android(BloC, Map integration, themes and overall)

-Working in team environment with collaborations

-UI/UX development for mobile application(Figma)

EDUCATION AND TRAINING

[2022 – 2025]

BSc. Honours degree in Computing

Softwarica College of IT and E-commerce (Coventry University affiliate)

City: Kathmandu | **Country:** Nepal |

[2019 – 2021]

Graduated High school in Science faculty

Tillotama College

City: Butwal | **Country:** Nepal |

LANGUAGE SKILLS

Mother tongue(s): Nepali **Other language(s):** English , Hindi

SKILLS

MERN Stack (MongoDB, ExpressJS, ReactJS, NodeJS) | Dart programing language | Intermediate Flutter | GIT version control, Linux Command | Linux (Terminal Commands, Bash/Shell) | Full Stack Developer | Python

Gaming Forum PlayForge Mobile App

Play Forge a hub for gamers to connect, discover, and engage with gaming content. By integrating features such as forum, game discovery, community forums, and interactive discussions, Play Forge will revolutionize the way gamers interact with each other and explore the gaming landscape.

GitHub | Figma | Download APK

Restaurant Point of Sale Website

The Restaurant Point of Sale (POS) System Dine Track focuses on key operational challenges in restaurant management by integrating four essential components: cashier interface, server management, kitchen display system, and administrative controls. The system streamlines order processing, table management, and kitchen communication while providing real-time reports and sales analytics. Key features include customizable menu management, order modification capabilities, and comprehensive reporting tools along with receipt printing as well as payment splitting and different payment methods. Dine Track is developed in MERN (MongoDB, Express, React and Node) stack also utilizing Vite bundler on top of it making it faster and feature rich.

GitHub | Figma

Furniture E-com Website

Furnishion is a secure furniture e-commerce platform built using React, Node.js, and MongoDB with vite and javascript, emphasizing compliance with OWASP Top 10 standards. Key security implementations include dual-layer authentication (JWT and session-based), AES-256 encryption for sensitive data, and input sanitization to mitigate XSS and SQL injection risks. The platform enforces bcrypt hashing, role-based access control (RBAC) for admin and user roles, and audit logging via MongoDB. HTTPS encryption, rate limiting (100 requests/15 minutes), and automated dependency checks ensure adherence to GDPR and CCPA regulations. Security audits and penetration testing validate the system's resilience, while a defense in-depth strategy protects network, application, and data layers.

GitHub

SRASU (Spatial Reconstruction and Scene Understanding)

SRASU implementations for spatial reconstruction and scene understanding, specifically designed for autonomous vehicles and robots. The project utilizes various libraries including:

- OpenCV for image processing
- Open3D for 3D data manipulation
- SLAM algorithms for mapping and localization

Key Features

- Real-time SLAM implementation
- 3D scene reconstruction
- Object detection and tracking
- Spatial mapping
- Scene understanding algorithms

GitHub | YT

Gaming Forum Playforge Website

Play Forge is a react, tailwind based frontend for a gaming forum. Play forge has UIs for both Admin and users to create and manage posts, comments, games, search posts, view user information, like,dislike and view posts, edit profile , reset password using phone number.

GitHub | Website

Node BackEnd for Gaming Forum

The backend for playforge is built with node.js and provides functionalities for posts, comment, search, reactions operations. It handles data management, authentication, and various API endpoints for post , comments, reactions, games along with external APIs for searching games from google play store and getting otp in phone.

GitHub

Surveillance and security robot

Researched and implemented computer vision, assisted intelligence and transfer learning to design and develop a surveillance and security robot named dark paw.

Medwell

Assisted in crafting a medication and period tracker application for Android, leveraging Dart's framework Flutter. Developed the notification system for medication reminders, developed custom bottom navigation bar for the app, integrating Firestore as the backend for seamless data management and synchronization.

GitHub | Figma

Clothing E-commerce app

Simple clothing e-commerce app with attractive UI made and implemented using Flutter framework.

GitHub

Bugle

Spiderman theme inspired simple blog / article website consisting of login, profile, database and many other features using HTML, css , bootstrap, javascript, java and postgres database.

GitHub

Asap checkout system

Engineered a comprehensive checkout system customized for businesses, integrating a state-of-the-art QR code product scanner using Python's Tkinter framework.

GitHub | Figma

Apex Productivity system

Crafted an desktop application using java for productivity enhancement and expenditure tracking which contained things like expense tracker, limit expenditure, note taking, and other CRUDs.

GitHub

HOBBIES AND INTERESTS

Gaming

INVOLVEMENT IN PRO-GRAMS AND ACTIVITIES

[19/05/2022 – 21/05/2022] **Code mania hackathon**

Illustrated and arranged the development of a website designed to facilitate personalized contributions towards combating SDG Life on Land, focusing on planting initiatives.