

Sanskar Singh Dangol

Kathmandu, Nepal

+977-9840569762 | singhsanskar240@gmail.com | burr1to | portfolio-burrito.vercel.app/ | burr1to | sanskar-singh-dangol-bb2095222/

Personal Profile

Curious and driven Computer Science undergraduate with experience in full-stack development and applied machine learning. I enjoy turning ideas into practical solutions, from building complete web platforms to experimenting with neural networks and generative AI. Passionate about creating technology that is both impactful and user-friendly, I thrive in collaborative environments and am eager to keep learning while tackling challenging projects.

Projects

npFolio: A Portfolio Management System

Gyaneshwor, Kathmandu

SMTM Capital

March 2025 - Current

- Built a comprehensive portfolio management system using Nextjs, Nodejs and Python
- Developed the user interface and integrated backend APIs for seamless data interaction
- Enhanced user experience by optimizing interface responsiveness and workflow
- Worked on analytics and reporting using Python Flask
- Built efficient workflows for bulk uploads, data extraction and processing, and reporting
- Used Nodejs to generate PDFs of letters and vouchers
- Performed quality assessment tasks to test usability of product
- Technical Skills:** Nextjs, Python, Flask, MySQL, Nodejs, Docker, Linux

Songkhare: Sentiment-Analysis Based Song Recommendation

Dhulikhel, Kavre

Kathmandu University

July 2024 - October 2024

- Built a machine learning model for sentiment analysis using text-based user prompts
- Compared deep learning performance for the LSTM model with classical classifiers
- Helped users receive personalized music suggestions based on mood analysis using a basis called valence score
- Technical Skills:** TensorFlow, React, Pandas, Numpy
- GitHub Link:** github.com/burr1to/Songkhare

FromMyKitchen: Recipes For Home Chefs

Dhulikhel, Kavre

Kathmandu University

February 2024 - May 2024

- Developed a MERN stack web app with JWT Authentication and role-based authorization
- Enhanced performance through cookie handling and caching strategies
- Frequently used Pair-Programming to create new features and handle bugs/errors
- Technical Skills:** React, Nodejs, MongoDB, JWT
- GitHub Link:** github.com/burr1to/FromMyKitchen

NNScratch: A Neural Network made from Scratch

Dhulikhel, Kavre

Kathmandu University

September 2023 - December 2023

- Learnt the fundamentals of deep learning and multi-layer perceptrons (MLPs)
- Implemented a MLP from scratch using Numpy and Pandas
- Used basics of calculus and linear programming to set up deep learning concepts from scratch
- Technical Skills:** Python, Numpy, Pandas, Matplotlib
- GitHub Link:** github.com/burr1to/NNscratch

GenerAI: Image Generation using WGAN

Dhulikhel, Kavre

Kathmandu University

December 2024 - Present

- Applied generative AI techniques to create visually realistic images
- Trained a WGAN model to generate realistic 64x64 images
- Did a 80/20 train-test split using a celebrity portrait dataset
- Upscaled outputs using pre-trained SRGAN for improved image resolution
- Technical Skills:** Python, Generative AI, WGAN, PyTorch, Tensorboard
- GitHub Link:** github.com/burr1to/generAI

Skills

Languages and Frameworks Python, Flask, Django, React, Nextjs, SQL, Postgres, Node.js, REST
Tools and Platforms Git, Docker, Linux, Figma, Notion, PyTorch, TensorFlow, Postman
Soft Skills Teamwork, Problem-solving, Communication, Conflict Resolution

Education

Kathmandu University

BSc in Computer Science

Dhulikhel, Kavre

August 2020 - June 2025

- Specialized in building full-stack web applications
- Worked extensively on research based machine-learning projects
- **CGPA(Estimated):** 3.8

Uniglobe HSS

+2 High School Degree

Kamaladi, Kathmandu

July 2017 - June 2019

- Graduated with Distinction
- **CGPA:** 3.75

Interests

Technical Interests Web Development, Machine Learning, System Architecture, Backend systems

Personal Interests Art and Design, Architecture, Music, Photography

Professional Experience

SMTM Capital

Full Stack Software Developer

Kathmandu, Nepal

March 2025 - Current

- Worked on npFolio, npFund and npOpen, three separate stock portfolio management systems for broker capitals and banks of Nepal
- Built dynamic client-side interfaces including a customer and admin side using Next.js, React Hook Forms and Tailwind
- Handled bulk uploads and processing, authentication, data extraction and processing and reporting analytics using Python Flask
- Worked on API integration, responsive design and performance optimization for seamless user experience
- Built APIs using Python Flask and Pandas for efficient data extraction from bill CSVs and PDFs
- Used a modern agile framework to complete tasks in sprints and track progress

Nepal TrekinHimalaya

WordPress Developer

Kathmandu, Nepal

Sept 2022 - Dec 2024

- Collaborated as a two-person team to develop a trekking website named TrekinHimalaya
- Used WordPress tools and plugins to build a fully-optimized functional trekking website
- Enhanced communication and presentation skills through meetings with website owners
- Managed design tasks for website using Figma and Adobe Photoshop