

# Brojen Gurung

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**My Portfolio:** <https://brojen-info.vercel.app>

**LinkedIn:** <https://linkedin.com/in/brojen-gurung-8137b2250>

**Github:** <https://github.com/BrozG>

## Objective

Final-year B.Tech IT undergraduate with hands-on experience in **Generative AI (LLMs)** and **Full-Stack Systems**. Currently architecting a university-scale migration platform using **Next.js** and **Node.js**. Passionate about building sovereign AI infrastructure; seeking to leverage skills in **Python, Microservices, and Model Deployment** (LLaMA/Stable Diffusion) to contribute to Sarvam.ai's autonomous agent ecosystem.

## Education

BTech – Information Technology (Pursuing)	Sikkim Manipal Institute of Technology (SMU)   2022–2026
Secondary (Class X)	Holy Cross School, Tadong (CBSE), Gangtok   2020
Marks:73%	
Senior Secondary (Class XII Sc)	Tashi Namgyal Senior Secondary School (CBSE), Gangtok   2022
Marks:63%	

## Technical Skills

- **Languages:** Python (Strong proficiency), TypeScript, JavaScript (ES6+), C++, SQL.
- **Backend & Systems:** Node.js, Express.js, Next.js (Server-Side Rendering & API Routes), RESTful API Design, Microservices Architecture (Foundational), Authentication (JWT/OAuth).
- **AI & Generative Models:** Large Language Models (LLaMA 2/3), LangChain, RAG (Retrieval-Augmented Generation), Hugging Face Transformers, Stable Diffusion, Computer Vision (YOLO), CUDA Optimization.
- **Databases & Storage:** MongoDB, Firebase Firestore, Vector Databases (Concept).
- **DevOps & Tools:** Docker (Containerization), Git/GitHub (CI/CD workflows), Postman (API Testing), AWS (Basic EC2/S3), Vercel, Linux/Unix Command Line.

## Professional Experience

Full-Stack Engineering Intern | *RWorld Computer Solutions Guwahati, Assam* | Aug 2025 – Present

- **System Re-architecture:** Spearheading the backend migration of a legacy university portal to a modern **Node.js/PostgreSQL** architecture, ensuring data integrity for thousands of academic records.
- **API Development:** Designed high-concurrency RESTful APIs to feed a dynamic **Next.js** frontend, optimizing response times for heavy-load modules.
- **Data Pipeline:** wrote automated scripts for cleaning and structuring raw data, reducing manual entry errors by 40% during the migration phase.

## Intern | *Department of IT, Govt. of Sikkim Remote* | [June 2024-July 2024]

- Assisted in digital initiatives and developed a prototype Python-based virtual assistant for internal query handling.

### Projects

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- **Gurumurti Decorators – Client Website:** Designed and deployed a high-performance business website using React, TypeScript, Tailwind CSS, and Vite, hosted on Vercel with a custom domain via Namecheap. Implemented SEO best practices and responsive UI to significantly enhance the client's online reach and brand visibility.
- **Sikkim Tourism Chatbot – AI-Powered Travel Assistant:** Engineered a multilingual chatbot for **Sikkim tourism**, integrating **IBM Watson** with a locally hosted **LLaMA 3 backend** for intelligent, offline query handling. Merged real-world **taxi fare data** and deployed a clean **Streamlit UI**, enabling efficient, real-time assistance for travelers across languages.
- **AI Wallpaper Generator (Stable Diffusion):** Developed a personalized image generation system using **Stable Diffusion**, leveraging **CUDA acceleration on RTX 3050**. Integrated facial detection and custom prompt logic to generate user-specific wallpapers, laying the foundation for future AI-driven creative tools.
- **YOLO-Based Fault Detection in Solar Panels:** Contributed to a CV-based fault detection project for **photovoltaic (PV) cells** using **YOLO architecture**. Led the effort in collecting and manually annotating a clean, diverse image dataset, ensuring high precision during model training for automated panel diagnostics.

### Certifications & Achievements

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- Participated– GDSC SMIT UI Redesign Challenge
- Built & hosted multiple full-stack projects independently

### Interests

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- Sports (Basketball, Gym)
- Reading
- Traveling
- Coding