

Gaurab Chhetri

Austin, TX |  gauravfs-14 |  gaurabchhetri |  gaurabchhetri.com.np |  contact@gaurabchhetri.com.np | +1 (xxx) xxx-xxxx

SKILLS

Languages: TypeScript, JavaScript, Python, C/C++, SQL, R, HTML, CSS, PHP

Web/Backend: Next.js, React, Node.js, Express, REST; **DB:** MySQL, MongoDB, SQLite; **Tools:** Docker, Linux, Git, Neovim

Data/ML/Viz: pandas, numpy, scikit-learn, Hugging Face (Transformers), R (ggplot2, Shiny), D3.js, Leaflet.js

Additional: SEO, CLI tooling, WordPress, Domain management, Prompt engineering, CI/CD

PROJECTS

CognitiveSky (github.com/gauravfs-14/cognitivesky)

Research Project

Node.js, Python, Hugging Face (Transformers), React

May 2025 – Aug 2025

- Engineered an end-to-end Bluesky Firehose pipeline with batched NLP labeling for sentiment, emotion, and topics, and delivered a Next.js research dashboard with Turso-backed snapshots; accepted for presentation at **HICSS 2026**.

CrashTransformer (github.com/gauravfs-14/crashtransformer)

Research Project

Python, Hugging Face (Transformers), Next.js

Jul 2025 – Aug 2025

- Developed a transformer-based workflow for narrative summarization and severity inference across **150k+ police reports** with reproducible evaluation and open documentation; submitted to **IJCNLP 2025** and **TRBAM 2026**.

Bhanai Programming Language (npmjs.com/package/bhanai)

Personal Project

Node.js, CLI Tools

Jan 2021 – Feb 2021

- Published a Nepali-style interpreted language that executes `.bhn` files via `chalu`, supporting variables, conditionals (`yadi...aru`), comments, lists, and objects under the MIT license, reaching early adoption among hobbyist developers.

ComputeNepal (comutenepal.com)

Open Source

WordPress, SEO, Open Source

May 2021 – Present

- Founded an education platform with **200+ articles** and expanded reach to **50k+ monthly impressions** through technical SEO and open source learning tools, including Learn C, JS Challenges, Learn HTML, and Quiz.

Research Dashboards and Tools (github.com/gauravfs-14)

Research Project

Next.js, Leaflet.js, TypeScript

Oct 2024 – Present

- Delivered **25+** interactive dashboards with filtering, clustering, overlays, and responsive UI in Next.js and Leaflet, ingesting CSV, SQLite, and API sources to support research and policy analysis.

EXPERIENCE

Undergraduate Research Assistant

San Marcos, TX

AIT Lab @ Texas State University

Oct 2024 – Present

- Produced **25+ analytical and visualization tools** across internal and open source contexts, processed **150k+** mobility and crash records, and standardized AI in transportation workflows with reproducible pipelines.
- Co-authored **5+ manuscripts** published or online with **10+** additional submissions in progress, contributing methods, analysis, modeling, quality control, and documentation in Python, R, and JavaScript.
- Designed the AIT Lab website in Next.js and Tailwind, deployed on Vercel, and achieved **90+ Lighthouse** SEO and performance scores across publications, projects, team, and resources sections.

HONORS & AWARDS

Hackathon Wins

Austin & San Marcos, TX

HackaCat Nano 2024, RiverHacks 2025, Organized AI Hackathon 2025

Aug 2024 – Present

- Secured **3 of 4 hackathons wins** since 2024, building projects such as **RUMI** (AI roommate finder), **ResQMe** (AI emergency response system), and **MedGuide AI** (medical assistant with LangGraph and RAG).

Undergraduate Research Fellowship

Texas State University

Competitive Research Fellowship

Mar 2025

- Awarded \$2,000 in Quanta Services funding to lead an independent research project on heat stress prediction.

EDUCATION

Bachelor of Science in Computer Science

San Marcos, TX

Texas State University (GPA: 4.0) — Dean's List (Fall 2024 – Present)

Expected May 2028

- Coursework:* Data Structures, Algorithms, Assembly Language, Discrete Math, Probability & Statistics, Calculus