




Gaurab Chhetri

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SKILLS

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

Web/App Development: React.js, Next.js, React Native, Node.js, Express.js, REST APIs, MongoDB, MySQL, Prisma, Tailwind CSS

Tools & Platforms: Git, GitHub, Vite, Netlify, Cloudflare, WordPress, Expo, DigitalOcean, Linux

Data & Visualization: RStudio, pandas, matplotlib, Leaflet.js, D3.js, Data Cleaning, Dashboarding

Creative & Other: Figma, Canva, GIMP, SEO, System Administration, CLI Utilities, Documentation

PROJECTS

Bhanai Programming Language

npmjs.com/package/bhanai

- Developed **Bhanai**, a Nepali-inspired programming language with custom syntax, lexer, and execution engine using Node.js.
- Published as an open-source NPM package for easy CLI usage and cross-platform support.

AIT Lab Website

ait-lab.vercel.app

- Built a modern academic research website for Texas State University's AIT Lab using Next.js and Tailwind CSS.
- Optimized Lighthouse SEO, performance, and accessibility scores (90+).

ComputeNepal

computenepal.com

- Developed a full-fledged educational platform featuring 200+ technical articles, coding tutorials, and learning tools.
- Achieved 300% growth in organic traffic through SEO and content-driven engagement.

Texas Measles Dashboard

measles-dashboard.vercel.app

- Built an interactive Leaflet-based map dashboard using DSHS data to track measles outbreaks across Texas counties.
- Implemented real-time filtering, geospatial analysis, and responsive UI for public health insights.

TRBAM Bluesky Dashboard

trbam-bluesky-dashboard.vercel.app

- Designed a React-based dashboard to fetch and display trending TRBAM-related posts from the Bluesky network.
- Enabled keyword filtering and date-based visualization to support transportation research event analysis.

EXPERIENCE

Texas State University

San Marcos, TX

Undergraduate Research Assistant

Oct 2024 – Present

- Developed 25+ analytical and visualization tools to improve data interpretation for AI-driven transportation research.
- Analyzed large datasets (150k+ entries) using JavaScript, R, and Python, improving research efficiency by 11%.
- Contributed to 4+ academic papers by conducting in-depth data analysis, figure preparation, and visualization.

EDUCATION

Texas State University

San Marcos, TX

Bachelor of Science in Computer Science (GPA: 4.0) — Dean's List Receptionist

Expected May 2028

HONORS & AWARDS

Best in Development/Coding - Hackacat Nano 2024

San Marcos, TX

Organized by: ACM AI @ TXST

Nov 2024

- Developed RUMI: An AI-powered roommate finder using React, Node.js, and OpenAI in just 7 hours.

PUBLICATIONS

Online Gaming and Child Safety

Pokhara, Nepal

Read @ República - The Partner of New York Times

Apr 2023