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, Linux

Data & Visualization: RStudio, Pandas, GGplot, Leaflet.js, D3.js, Recharts, Chart.js, Data Cleaning, Dashboarding

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

PROJECTS

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

Node.js, JavaScript, CLI Tools

- Designed and developed a Nepali-inspired programming language with a custom lexer, parser, and interpreter.
- Published as a globally installable NPM package, enabling CLI-based scripting.

AIT Lab Website (ait-lab.vercel.app)

Next.js, React.js, Tailwind CSS, Vercel

- Built a performant academic website for the AI in Transportation Lab at Texas State University.
- Achieved 90+ Lighthouse scores in SEO and performance audits.

ComputeNepal (computenepal.com)

WordPress, SEO, Google Analytics, HTML/CSS, Hosting Tools

- Founded a technical education platform with 200+ articles and tools, reaching thousands of users.
- Increased monthly traffic by 300% via technical SEO and engagement strategies.

Texas Measles Dashboard (measles-dashboard.vercel.app)

Next.js, Leaflet.js, JavaScript, TypeScript, Python, CSV Parsing

- Built an interactive dashboard to visualize measles outbreaks across Texas counties using DSHS, TX datasets.
- Enabled dynamic filtering, responsive popups, and map overlays for policy visualization.

TRBAM Bluesky Dashboard (trbam-bluesky-dashboard.vercel.app)

Next.js, React.js, Bluesky API, Tailwind CSS, SQLite, Drizzle ORM, Vercel

- Created a dashboard to track TRBAM-related discussions using Bluesky's decentralized social data.
- Added filtering and sorting tools for researchers to analyze post trends during the conference.

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 to draw meaningful insights from the data.
- Contributed to 6+ academic papers by conducting in-depth data analysis, figure preparation, visualization, and technical writing.

EDUCATION

Texas State University   San Marcos, TX

Bachelor of Science in Computer Science (GPA: 4.0) — Dean's List (Fall 2024–Present)   *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*