

# KARAN PRATAP SINGH

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## EDUCATION

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### Georgia State University – Presidential Scholar (Full-Ride Merit Scholarship)

Bachelor of Science in Computer Science | Expected Graduation: 2029 | Atlanta, GA

## PROJECTS

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### Vertex A11y – Chrome Accessibility Extension (HackGT12 Emerging Track Winner)

- Developed a Chrome extension that scans websites for ADA/WCAG accessibility violations (missing alt text, keyboard traps, low contrast) using HTML, CSS, JavaScript.
- Integrated the OpenAI API to automate compliance scoring (A/AA/AAA), enabling developers to quantify and improve accessibility performance.
- **Emerging Track Winner at Georgia Tech Hackathon** among 1,500+ participants.

### Weather Data Processing Microservice (Python + FastAPI + NumPy)

- Implemented a FastAPI backend that retrieves real-time weather data from Open-Meteo and uses NumPy to compute basic statistics such as mean, min/max values, hourly changes, and simple rolling trends.
- Designed a small, reproducible data-processing workflow with clear REST endpoints to expose cleaned and structured analytics.

## EXPERIENCE

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### Math Tutor / Undergraduate Assistantship Program – Georgia State University MILE Lab & Schoolhouse.world

March 2025 – Present

- Tutored 100+ students in Precalculus and SAT Math through structured problem-solving sessions.
- Simplified complex concepts, helped improve student performance and retention in quantitative subjects by reinforcing fundamentals and analytical thinking.

### Independent Technical Writer – Medium & LinkedIn

January 2023 – Present

- Authored 50+ technical articles on artificial intelligence, system design, and algorithms, receiving over **2 million views**.
- Simplified complex concepts as algorithms, system design, machine learning, and developer productivity

## TECHNICAL SKILLS

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**Programming Languages:** Python, CSS, HTML

**Frameworks & Tools:** Git/GitHub, Linux command line (basic)

**Currently Learning:** NumPy, Pandas, FastAPI (beginner)