

Geunwoo Park

[🐙 geunwoo-dev](#) | [in geunwoopark](#) | [🌐 geunwoopark.vercel.app](#) | [✉️ gpark69@wisc.edu](#)

SUMMARY

Computer Science student at UW–Madison with experience in software engineering, ML evaluation, and applied research. I build evaluation-first systems that connect experimentation, internal tools, and production software across LLM alignment, graph-theoretic optimization, and data analysis.

EXPERIENCE

URJOB — Software Engineer Intern Mar 2026 – Present

- Built a content parser and question-to-company inference module for external job platform data, wiring it to a Vercel cron workflow that continuously syncs and backfills a Supabase database.
- Refactored 600+ LOC monolithic Next.js/Supabase pages into DB-driven client components, shipped an admin sync dashboard, and reduced PII exposure through server/client boundary data masking.

Boxmate — Software Engineer Oct 2025 – Present

- Designed and built an internal task management platform with role-based authentication, admin approval workflows, task review, and point-based progress tracking.
- Architected a NestJS blog module with Prisma schema design, database migration, layered DTO/repository/service structure, and admin/public REST controllers; shipped backend services across Flask, MongoDB, and AWS S3.

Algoverse — AI Researcher May 2025 – Dec 2025

- Built a checkpoint-based evaluation pipeline around Qwen2.5-7B-Instruct to study how hallucination, harmful behavior, and coherence evolve during training.
- Led experimentation, analysis, and manuscript preparation for first-author research on emergent misalignment in large language models.

UW–Stout — Graph Theory Research Assistant May 2025 – Present

- Conducted combinatorial optimization research on graph-theoretic labeling problems, applying exact constraint solving with Python and OR-Tools CP-SAT for formal verification and reproducible computation.
- Developed a CP-SAT framework for (a, d) -antimagic labelings of complete graphs and designed an affine block-synthesis model to analyze structural limits of vertex-sum realizability.

Korea Transport Institute — Research & Data Analysis Assistant Jun 2025 – Jul 2025

- Built a Python NLP workflow using KoNLPy and regex preprocessing to extract themes from FGI data for a national transportation policy project on low birth rates.
- Analyzed nationwide mobility datasets and synthesized interviews, case studies, and quantitative indicators for the final report.

PROJECTS

Prediction Market AI

[GitHub](#)

Built a 5-agent AI pipeline across Polymarket, Kalshi, Metaculus, and Manifold, processing 500+ markets per cycle with a 3-layer forecasting stack, dynamic Kelly sizing, WebSocket monitoring, arbitrage detection, and backtesting.

StockSage Discord Bot

[GitHub](#)

Built a stock analysis Discord bot with technical indicators, alerts, virtual trading, and charting for 13K+ active users, improving reliability with Redis caching, background scheduling, and cloud deployment.

SuMail Email Summarization Extension

[GitHub](#)

Led a five-person team building a Chrome extension that summarizes long emails with GPT-4.1-mini, covering browser messaging, OpenAI integration, and a lightweight in-context UI for faster inbox triage.

EDUCATION

Fall 2025 – Present B.S. in Computer Science at **University of Wisconsin–Madison**

Fall 2024 – Spring 2025 B.S. in Computer Science at **University of Wisconsin–Stout**; Dean's List:
Fall 2024, Spring 2025

PUBLICATIONS

Park, Geunwoo (2026a). *Emergent Misalignment: Tracking the Emergence and Evolution of Misaligned Traits throughout Model Training*. First author. Accepted at EACL 2026 Student Research Workshop and selected in the **top 4.8% of submissions** at ICLR 2026 CAO.

– (2026b). *Safety Evaluation is Highly Sensitive to Prompt Framing: An Inference-Only Study on Harm-Bench*. Sole author. Accepted as a poster at ACL 2026 EvalEval Workshop.

LEADERSHIP

UW–Madison

Dec 2025 – May 2026 **Academic Coordinator**, Korean-American Scientists and Engineers Association

Sep 2025 – May 2026 **Operations Officer**, Korean Undergraduate Student Association (KUSA)

UW–Stout

Jan 2025 – Aug 2025 **Founder & President**, Asian Student Association

Nov 2024 – May 2025 **Co-Founder & Vice President**, Investment Club

SKILLS

Languages Python, Java, JavaScript, TypeScript, SQL, C/C++

Frameworks & Tools React, Next.js, Node.js, Express, NestJS, FastAPI, Flask, Git, Docker, AWS, Google Cloud, Redis, MongoDB, Prisma, PyTorch, XGBoost, OR-Tools, Supabase, Vercel

Research & Data LLM evaluation, experiment pipelines, static analysis, NLP, qualitative analysis support, constraint solving

Languages Spoken English (professional working proficiency), Korean (native)