

George Kim

Computer science graduate specializing in AI systems and full-stack development, with research experience in multi-agent systems and proven track record in scalable web applications

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georgekim.ca

Education

Hong Kong University of Science and Technology (HKUST)

Master of Philosophy (Computer Science & Engineering) Sep 2024 — Present

Bachelor of Science (Computer Science & Mathematics) Sep 2018 — Jan 2024

- Academic Achievement Medal (Top 1% GPA)

Relevant Experience

Research Assistant · Relaxed System Lab, HKUST Mar 2024 — Aug 2024

- Developed a multi-agent AI system for automating climate science workflows, integrating specialized agents for task planning, data acquisition from climate data APIs, scientific analysis, and report generation
- Architected a robust pipeline using Python, LLMs, and external climate tools to process multi-step workflows including tropical cyclone tracking
- Achieved 85%+ success rate on complex multi-step workflows, significantly outperforming single-agent baselines

Web Developer · Sustainability Team, HKUST Jan 2022 — Jun 2023

- Architected a real-time digital message board application serving 300+ concurrent users using Next.js, React, TypeScript, and Prisma ORM with WebSocket-powered live messaging capabilities
- Developed comprehensive features including multiple board layouts, admin moderation, file uploads, and customizable themes with responsive design
- Designed and built responsive user interface using Tailwind CSS, ensuring optimal user experience across desktop and mobile devices
- Created comprehensive documentation and maintainable codebase architecture enabling easy project onboarding and future development

Sergeant · Republic of Korea Army Nov 2019 — Jun 2021

- Built a JavaScript-based ETL tool to automate HTML-to-CSV data conversion, reducing processing time by 70%
- Developed scalable automation solutions using Python scripts, generating 1,000+ personalized reports and cutting preparation time by 80%

Skills

Programming Languages

Python, JavaScript (ES2015+), TypeScript, HTML, CSS

Frameworks

React, Next.js, Node.js, Tailwind CSS, PyTorch, TensorFlow

Database

PostgreSQL, MySQL

Tools

Docker, Git, GitHub, Vercel, Unix/Linux, AWS

Selected Projects

Climate AI Agent

Python-based multi-agent system automating climate workflows with OpenAI integration and Selenium data validation.

Message Wall

Real-time digital message board built with Next.js - open source with live demo

georgekim.ca

Personal website built with React, Next.js, Tailwind CSS

Publications

TOMI (CSCW 2023)

Third author - Built complete chat system infrastructure from scratch for NLP user interaction experiments