KAT WONGSRISOONTORN

Software Engineer

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EDUCATION

New York University, New York, NY *Spring 2027*
BS/MS Program in Computer Science & Integrated Design and Media **GPA: 3.94 (Dean's List)**
- Minor in Web Programming and Applications
- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Design and Analysis of Algorithms, Programming and Problem Solving, Creative Coding, Web Development, User Experience (UX) Design

WORK EXPERIENCE

Computer Science Tutor, CRLA Certified *Sep 2025 – Present*
NYU Polytechnic Tutoring Center
- Tutored students and led review sessions for Programming and Problem Solving and Data Structures and Algorithms

Software Engineer Intern *June 2025 – Aug 2025*
SCBX ABACUS Digital, **Global Fortune 1000 Technology and Financial Services Company**
- Developed an AI tool using **LangChain** to automate metadata generation and streamline queries across **50+ datasets**
- Architected a large-token summarization pipeline on **GCP Cloud Run,** reducing manual documentation by **over 90%**
- Integrated pipeline into **CI/CD workflow** with **Cloud Build** and **GitHub Actions** to automate linting and testing

Software Engineer Intern *June 2024 – July 2024*
PTT Public Company Limited, **Global Fortune 500 Energy Provider**
- Developed a report generation tool with **pandas** to automate data processing and improve efficiency by **over 900%**
- Enhanced **API reliability** and edge case handling through **A/B testing** and EV charger testing using **Kafka** and **Git**
- Designed cross-platform mobile interfaces for Android and iOS to enhance functionality and overall user experience

UI/UX Engineer Intern *June 2023 – Aug 2023*
Pink Blue Black & Orange, **Award-Winning Multi-Disciplinary Design Consultancy**
- Designed responsive user interfaces using **Figma, HTML/CSS,** and **JavaScript** to improve overall product usability

SOFTWARE PROJECTS

24 Game Solver, Algorithmic Web App for a Math-Based Puzzle
- Developed a **Python-based algorithm** to efficiently solve the 24 game, handling different variations and edge cases
- Launched a web app using **Streamlit** with optimized codebase, achieving a **90% increase** in efficiency and readability

Alien Dating App, Futuristic Dating Platform Simulation
- Developed a web app using the **p5.js library** to simulate an online dating app with **chatbot** and **video call** features

Confucius, Interactive AI Tutor
- Led the design and built **React** frontend for an AI tutor that summarizes videos and answers questions in real time

LEADERSHIP EXPERIENCE

Director of Technology, Association of Thai Students in the USA *Aug 2024 – Aug 2025*
- Led registration and check-in systems for **5,000+ participants** using **SQL** to clean and analyze data for event insights
- Developed an AI system with **LangChain, OpenAI,** and **pandas** to organize **3,000+ profiles** and automate outreach

President, NYU Thai Student Association *Aug 2023 – Aug 2025*
- Organized major events across East Coast, achieving **20% increase in profits** and **over 300% growth** in engagement

SKILLS

Programming Languages: Proficient: C++, Python, SQL & **Familiar:** Java, JavaScript, TypeScript, HTML/CSS
Frameworks & Tools: GCP (BigQuery, Secret Manager, Cloud Run, Cloud Build), AWS (Lambda, S3), Kafka, Airflow, MySQL, Pandas, NumPy, Elasticsearch, LangChain, Linux, Shell Scripting, Grafana, Git, React, Streamlit, p5.js, Figma, Jira