

# KAT WONGSRISOONTORN

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## EDUCATION

New York University, New York, NY

BS/MS Program in Computer Science & Integrated Design and Media

Spring 2027

GPA: 3.94 (Dean's List)

- Minor in Web Programming and Applications

- Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming (OOP), Web Development, Design and Analysis of Algorithms, Programming and Problem Solving, Creative Coding, User Experience (UX)

## SKILLS

**Programming Languages:** Proficient: C++, Python, SQL & Familiar: Java, JavaScript, TypeScript, HTML/CSS

**Frameworks & Tools:** GCP (BigQuery, Cloud Run, Cloud Build, Secret Manager), AWS (Lambda, S3), Kafka, MySQL,

Elasticsearch, Pandas, NumPy, LangChain, Linux, Shell Scripting, Git, Grafana, React, Tailwind, Streamlit, p5.js, Figma

**Interests:** Minimalist design, gymnastics, puppies, cat memes, singing, piano, **all things Miffy**, hotpot, jasmine green tea

## WORK EXPERIENCE

Software Engineer Intern

June 2025 – Aug 2025

*SCBX ABACUS Digital, Global Fortune 1000 Technology and Financial Services Company*

- Developed an internal AI assistant using **LangChain** and **OpenAI** frameworks to automate metadata generation and data queries across **50+ datasets**, integrating **BigQuery**, **SQL validation**, Confluence search, and **JSON parsing**
- Architected a scalable summarization pipeline with chunking optimized for large-token inputs using **tiktoken**, deployed on **GCP Cloud Run** with **Secret Manager** for secure access, 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, improve efficiency in analyzing large volumes of client data, and support the creation of feasibility reports, achieving **over 900% increase** in productivity
- 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

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

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

- Built a web app using the **p5.js library** to simulate online dating app with interactive **chatbot** and **video call** features

[Confucius](#), Interactive AI Tutor

- Developed an AI tutor for lecture video summaries and real-time Q&A using **React**, **Tailwind**, and LLM integrations

## 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