

# KAT WONGSRISOONTORN

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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 (OOP), Data Science and Analytics, Programming and Problem Solving, Creative Coding, Web Development, User Experience (UX) Design

## 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

**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**, **LangGraph**, and **OpenAI** to automate metadata generation and resolve data queries across **50+ datasets**, leveraging **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 metadata documentation by **over 90%**
- Integrated the pipeline into a **CI/CD workflow** using **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 using pandas** to automate data processing, improve efficiency in analyzing large volumes of customer 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-car testing using **Kafka** and **Git**
- Designed cross-platform app interfaces for Android and iOS, enhancing functionality and user experience across devices

Computer Science Tutor, CRLA Certified

Sep 2025 – Present

NYU Polytechnic Tutoring Center

- Taught students in Programming & Problem Solving, Data Structures & Algorithms, and Object-Oriented Programming

UI/UX Engineer Intern

June 2023 – Aug 2023

Pink Blue Black & Orange, *Award-Winning Multi-Disciplinary Design Consultancy*

- Designed and built responsive user interfaces with **Figma**, **HTML/CSS**, and **JavaScript** to improve product usability

## SOFTWARE PROJECTS

[24 Game Solver](#), Algorithmic Web App for a Math-Based Puzzle

- Built a **Python-based algorithm** to efficiently solve the 24 game, addressing different variations and handling edge cases
- Launched a web app using **Streamlit** with an 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 a dating app with interactive features such as a **chatbot** and **video call**

Meeting Summary Assistant, AI Secretary

- Deployed a meeting minutes summarizer using **LangChain** and **OpenAI**, with optimized chunking and LLM memory

## 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 the East Coast, achieving a **20% increase** in profits and **over 300% growth** in engagement