



Ka Pui (August) Cheung

BS Computer Engineering @ New York University '28

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🔗 portfolio.kapui.net
Pronouns: they/them

Skills

Languages

TypeScript

JavaScript

SCSS, CSS

HTML

Python

Java

C++

SQL

Bash, Shell Script

Markdown

LaTeX, Typst

Web/Full-Stack Dev

React.js

Vue.js, Solid, Qwik

Remix, React Router

Vite, ESBuild, Webpack

Next.js

Node.js, Bun

WordPress

Database & ORM

PostgreSQL, MySQL

MongoDB, Document DBs

PrismaORM, Drizzle

Integrations

REST APIs, GraphQL

AI Prompting / Integration

OAuth

DevOps & Other

Git & GitHub

Docker

Ubuntu, CentOS, Linux Distro

Grafana, Sentry, Jest/Mocha

Cloudflare

Firebase

Languages

English

Chinese

Japanese

I am August Cheung 🙋, a passionate student developer with a deep interest in building innovative, empowering, inclusive, and accessible applications and software architectures for people and communities.

Profiles

[linkedin.com/in/kapui](https://www.linkedin.com/in/kapui) github.com/kapuic

Soft Skills

Self-Learning & Adaptivity	Project Management	Collaboration
Code Review	Presentation Skills	Market Research

Education

New York University

Computer Engineering

August 2024 - May 2028

Bachelor of Science - BS

Coursework: Data Structures and Algorithms, Introduction to Engineering & Design

Activities and societies: Association for Computing Machinery, Institute of Electrical and Electronic Engineers, Poly Programming Club

High School: AP Computer Science A, AP Computer Science Principles (with Perfect Score on Exam, Top 0.28% or 459 out of 164,505 exam takers)

Projects

Web App Dev: Interactive Tourism Map for Foreigners

May 2023 - Oct 2024

<https://shenzhengonet.net>

Open source at <https://github.com/kapuic/shenzhengonet>

- Led a team of 9 high schoolers to develop an interactive online map featuring points of interest, search functionality, travel guides, and trip suggestions.
- Innovated the first internationalized map and guide app for Shenzhen, removing language barriers for foreigners and boosting local tourism.
- Built with React.js/Remix, styled using TailwindCSS, featuring responsive & a11y design based on Figma prototypes.
- Attracted 2k+ visitors, earned 1st place in StarT competition, and showcased at a regional tech conference.
- Praised by Tourism Department government officials as “helpful and essential for improving tourism and facilitating internationalization.”

Web App Dev: AI-Powered Natural Language Math Equation Prettifier

Apr 2023 - Oct 2024

<https://equationous.com>

- Developed a web app enabling users to input equations in natural language, converting them into LaTeX, images, and other formats, powered by GPT.
- Aimed to simplify math typesetting for students and educators without requiring LaTeX expertise.

Research on GPT-4's Ability in Summarizing Key Points from Terms of Service Documents

October 2023 - May 2024

[Open source at https://github.com/kapuic/gpt-tos](https://github.com/kapuic/gpt-tos)

- Conducted research on GPT-4's performance in summarizing Terms of Service, processing ~1,014,000 tokens across a sample of 100 documents.
- Delivered a 12-page, 5k-word IEEE-styled paper and presentation, earning an A+ and a score of 5 on the AP Research exam.
- Designed and iterated prompts to improve summarization accuracy through experimentation.
- Integrated OpenAI and ToS;DR REST APIs to streamline access to data and automate workflows.
- Built CLI automation tools in TypeScript, managed research data using Prisma and PostgreSQL containers on Docker.
- Evaluated results using statistical metrics, including SMOG, Flesch-Kincaid, Gunning-Fog, Coleman-Liau, Dale-Chall, BLEU, and ROUGE scores.

Volunteering

High School - STEM Website Developer and Club Leader

August 2023 - May 2024

- Developed STEM department website using React and front-end techs, and hosted WordPress as a CMS.
- Founded a web development club with 30+ members introducing students to HTML, CSS, JavaScript, React, etc.
- Set up a tutor scheduling system deployed with Docker to streamline student access to tutoring services.