

Ka Pui (August) Cheung

Applied AI & Full-Stack Web/Software Engineer
B.S. Computer Science @ NYU Tandon
Engineering Class of '28

📍 Brooklyn, New York

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Pronouns: they/them

Skills

Languages	
TypeScript & JavaScript	SCSS, CSS, TailwindCSS
HTML	Python
Java	C++
SQL	Bash, Shell Script
Markdown, MDX	LaTeX, Typst

Full-Stack Web Dev	
React.js	Vue.js, Solid, Qwik
Next.js (App Router)	React Router (Remix)
TanStack Query (aka React Query)	Node.js, Express.js, Bun
TanStack Table, Form, DB	Vite, ESBuild, Webpack
Databases & ORMs	
PostgreSQL, MySQL	MongoDB, Document DBs
PrismaORM, Drizzle	Redis

Other	
REST APIs, GraphQL, SOAP	Vercel AI SDK, LangChain.js
OpenAI/Claude Integration, Prompt Engineering, Eval	OAuth, Auth0, Clerk

Tools, Platforms, DevOps	
Git & GitHub	Docker
Ubuntu, CentOS, Linux Distros	Grafana, Sentry, Jest/Mocha
Cloudflare Workers, Pages, Durable Objects, R2, D1, KV	Firebase

Awards
Gold Division USA Computing Olympiad (USACO)
Finalist (Top 6%) High School Mathematical Contest in Modeling (HiMCM)
High Distinction in Round 2 of Elite Division (Top <12.7%) Oxford University Computing Challenge (OUCC)
AP Capstone Diploma (1.78%)
AP Scholar with Distinction

Organizations
Association for Computing Machinery September 2024 - Present
Institute of Electrical and Electronic Engineers September 2024 - Present

Certifications
AP Capstone Diploma The College Board July 2024

Languages	
English Bilingual/Professional	Chinese Native Speaker
Japanese Limited Proficiency	

- Full-stack web-focused engineer experienced with TypeScript, Next.js, React Router, TanStack (Query, aka React Query, and other) TailwindCSS, Express.js, Hono.js, SQL & NoSQL databases.
 - I use Claude Code, Opencode, and other AI-powered tools to get work done. I also use AI SDK, LangChain, ReACT, RAG, vector stores to build AIs myself.
 - I love learning new things in the web world, like RSCs, cache tags, edge containers, Qwik, CSS masonry, MCPs & agentic AI, etc. Read more on Portfolio or LinkedIn.

Profiles
linkedin.com/in/kapui portfolio.kapui.net github.com/kapuic

Soft Skills		
Fast Self-Learner & Adapter	Attention to Detail & Quality	Code Review
Project Management with Jira, Trello, Linear	Office 365, Microsoft Word, Excel, PowerPoint	Google Workspace, GSuite, Docs, Sheets, Slides, Forms
Research with Due Diligence, Presentation Skills	Self-Motivated and Takes Initiative	Written and Verbal Communication

Experience	
Code Four (a YCombinator S25 AI Startup) Software Engineering Intern  https://codefour.us/	July 2025 San Francisco, California
Built AI-driven automation platform for police workflow. Tech stack: Next.js/React, FastAPI, Firestore, Google Cloud Platform, AWS Cognito, Cloud Run workers, and customized AI pipelines in TypeScript and Python.	

Galaxy Guide (AI-Powered Hardware Startup) Software Engineering Intern https://galaxyguide.cn/en	June 2025 - July 2025 Shenzhen, China
- Worked on Vue.js & uni-app based consumer app that communicate with two ESP32 hardware products, in collaboration with 3 founders in office. Products have gone to market. - Integrated and tested voice recognition, chatbot, memory, and image generation features.	

NYU Research Technology Services React.js Frontend Developer	Jan 2025 - Present New York
- Developed React+MDX pages and components for a new Docusaurus-based documentation site. - Performed responsive and a11y audits. - Configured code quality tools and CI workflows to streamline development. - Collaborated with NYU IT's full-time employees via Git and PRs.	

Education	
New York University Computer Science	Aug 2024 - May 2028 Bachelor of Science - BS
Coursework: Object-Oriented Programming with C++, Data Structures and Algorithms with Python, Probability and Statistics, Discrete Math, Calculus, Intro to Electronic and Computer Engineering, Intro to Engineering & Design	

Activities and societies: High Performance Computing, Everyday Assistive Technology, 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 https://shenzhengo.net	May 2023 - Oct 2024
Open source at https://github.com/kapuic/shenzhengo	
- 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 https://equationous.com	Apr 2023 - Oct 2024
- 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 Open source at https://github.com/kapuic/gpt-tos	Oct 2023 - May 2024
- Researched using GPT-3.5 and GPT-4 to summarize Terms of Service docs. - 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 in Grafana using statistical metrics, including SMOG, Flesch-Kincaid, Gunning-Fog, Coleman-Liau, Dale-Chall, BLEU, and ROUGE scores.	

Volunteering	
STEM Website Developer and Club Leader High School	Aug 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.	