

KAIWEN ZHOU

CONTACT

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🏠 Atlanta, GA

SKILLS

Digital Fluency: Python (FastAPI, Flask), JavaScript (Angular, React, D3), HTML, CSS, Java, R, Swift, Kubernetes, Rancher, Jenkins, AWX, JFrog Artifactory, AVI Load Balancer, Git/GitHub, PostgreSQL, Snowflake, Elasticsearch/Kibana, ServiceNow, AG Grid, Claude/LLMs, Office 365 (Power BI, Power Automate), Tableau, Cinema 4D

Language Fluency: Conversationally fluent in Mandarin

EDUCATION

Emory University

BS in Computer Science (Expected May 2027)

BS in Data Science w/ Concentration in Economics (Expected May 2027)

New England Conservatory

Solo Vocalist & Concert Pianist

Newton South

High School Diploma

RELEVANT COURSEWORK

- Data Structures & Algorithms
- Database Systems
- Software Engineering
- Probability & Statistics
- Linear Algebra
- Econometrics
- Microeconomics
- Data Visualization
- Discrete Mathematics
- Calculus
- Artificial Intelligence
- Distributed Systems
- Game Theory
- Statistical Computing
- Machine Learning
- Regression Analysis

WORK EXPERIENCE

Smartcycle AI (AI startup)

Sep 2026 – Present

AI Data Engineer & Full Stack Developer (Part-time)

- Building an intelligence engine to optimize user experience and retention for a major client.
- Personally built the engine's stacked ensemble machine learning models, using AI tools extensively throughout development.

Fidelity Investments

Fall 2022 – Fall 2026

Full Stack Engineer · Merrimack, NH

- Built a firm-wide FastAPI and React/AG Grid dashboard integrating roughly 300K metadata records from Snowflake, Commvault, and ServiceNow, enabling CIOs to monitor and validate data protection coverage.
- Built an Angular/Jenkins dashboard that cut releases from a full week to 1–2 days, consolidated roughly 33 monitoring pages, and automated releases across 6 GitHub repositories and 2 AWX project syncs.
- Cut debugging time by roughly 70% for manual analysis and nearly 95% with an AI workflow, combining AWX, Elasticsearch, and PostgreSQL data, LLM-assisted root-cause analysis, and interactive D3 flow tracing.
- Built a firm-wide Python/Flask and Angular self-service VM and storage platform, automating provisioning, filesystem and logical volume changes, and ServiceNow change management across enterprise storage systems.
- Led 5 Fidelity software engineers on Common Impact's Waterfront Project (Summer 2024), volunteering to resolve technical issues and workflow inefficiencies.

Writer's Loft (501(c)(3))

Winter 2020 – Fall 2021

Director of Systems Operations (Part-time) · Sherborn, MA

- Organized and modernized member data collection and maintenance.
- Optimized the website backend and administrative and client-facing communications.

Moderna Therapeutics

Summer 2018

Finance Intern · Cambridge, MA

- Collaborated with finance team leaders to proofread and reconstruct company coding and purchase order guides.
- Streamlined the procure-to-pay process by developing and distributing an infographic outlining procedures.

Private Tutor (Self-owned business)

Fall 2013 – Spring 2018

Private Math, Physics, and Chinese Tutor · Newton, MA

- Provided weekly math, physics, and Chinese tutoring.
- Created curriculum that accelerated client learning and deepened subject understanding.

Beth Israel Deaconess Medical Center

Summer 2017

GI (Volunteer) · Boston, MA

- Assisted in admin functions and observed colonoscopies and other GI procedures.

Mass General Brigham (Pathology Lab)

Summer 2016

Research Trainee · Boston, MA

- Conducted cell cultures, Western blots, and immunoprecipitation.
- Contributed to optimizing and improving existing cancer treatments.