

Matthew Wang

Frontend-focused SWE

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</> Relevant Experience

Scope3

Oct 2023 – Dec 2025

Software Engineer → Senior Software Engineer

Remote

- Delivered major frontend features across multiple product areas, improving component performance and code reliability while modernizing core UI patterns in **Next/React/TypeScript**.
- Improved UI quality and development efficiency by contributing to the custom design system, creating reusable component patterns, and establishing Storybook-based documentation integrated with Figma.
- Collaborated with backend engineers to refine GraphQL schemas, debug upstream data issues, and validate reporting accuracy via **PostgreSQL/ClickHouse** analysis.
- Took the lead on complex projects by shaping requirements from ambiguous product inputs, drafting technical plans, coordinating backend API design, and aligning closely with Product, Design, QA, and Solutions.
- Strengthened team cohesion by improving onboarding, running team-building activities, and creating a hackathon project that sparked cross-team connection.

Bergen County Academies

Sep 2018 – Jun 2023

CS Teacher for the Academy of Technology and Computer Science

Hackensack, NJ

- Revamped *Web App Dev* curriculum, updating tech stack from using PHP to **NodeJS** with cloud deployment [AWS, Heroku, Railway] (🌐 /inventory-webapp-tutorial-series)
- Led restructuring of *Capstone* project course to teach **Agile**-style app development; managed dozens of projects with varying tech stacks [React, Django, Flask, mongoDB, Firebase, etc.]
- Designed bespoke lesson and assignment suites for *Machine Learning* and advanced AI algorithm electives, including **Python** notebooks [pandas, scikit-learn] with custom datasets and interactive visualizers for 🌐 search & 🌐 game tree
- Contributed to multiple other cross-teacher courses, such as AP CS A [**Java**], **C Programming**, and SQL [**MySQL**] by developing curricula, lessons, coding exercises, test cases, auto-graders, and cloud-hosted course management infrastructure

TripAdvisor

Jun – Aug 2016

Data Science Intern

Newton, MA

- Developed new models for customer value estimation based on SEM data [**Python, R, HQL**]

🔬 Projects

SongSets

🌐 /matthew-h-wang/songsets 🌐 songsets.up.railway.app

- Web app [**NodeJS, MySQL**] for band members to collaboratively build setlists & analyze song usage
- Personal project, inspired by my wife and I's need to plan & track church music across weekly services

🎓 Education

Princeton University

Princeton, NJ

Bachelor of Science and Engineering in Computer Science - 3.7 GPA, Magna Cum Laude

May 2016

Certification in Teacher Preparation in Mathematics

May 2017

Coursework includes: A.I., M.L., Information Security, Theory of Algorithms, Functional Programming, Computer Architecture, Graph Theory, Combinatorial Math, Probability & Stochastic Systems, Linear Algebra