

Matthew Wang

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🎓 Education

Princeton University

Bachelor of Science and Engineering in Computer Science - 3.7 GPA, Magna Cum Laude
Certification in Teacher Preparation in Mathematics

Princeton, NJ

May 2016

May 2017

</> Relevant Experience

Bergen County Academies

CS Teacher for the Academy of Technology and Computer Science

Sep 2018 – Jun 2023

Hackensack, NJ

- Taught CS and software development to 9th-12th graders across wide range of experience & skill
- Frequent collaboration across Academy to continually develop our custom curricula with new topics & tech
- Topics and courses taught include: Intro CS [**Python, Java**], AP CS A + Data Structures [**Java**], IB CS SL, Assembly [**MOS 6502**], [**C**] Programming, Networks & Threading [**Java, Linux [bash]**], Databases [**MySQL**], Web App Dev [**NodeJS, Express, MySQL**], Artificial Intelligence and Machine Learning [**Python**], CS Capstone [**Agile Project Management**]

TripAdvisor

Data Science Intern

Jun – Aug 2016

Newton, PA

- Collected and analyzed Search Engine Marketing data and developed new predictive models for customer value estimation [**R, HQL**]
- Hackathon team project: A dynamic roadtrip planning webapp using Google Maps and TripAdvisor APIs

Faithlife

Software Dev Intern

Jun – Sep 2015

Bellingham, WA

- Developed features for Proclaim presentation software, inc. song file parsing and a Twitter “wall” [**C#, JS**]
- Hackathon team project: An inter-personal accountability Android app

Army Research Labs

Research and Software Dev Intern

Jun – Sep 2014

Adelphi, MD

- Conducted NLP research on using ML for diacritic restoration in MS Arabic [**Java, Awk**]

🔧 Projects

SongSets

🌐 /matthew-h-wang/songset-manager 🌐 songset-manager-production.up.railway.app

- Web app [**NodeJS, Express, MySQL, Autho**] for musicians to build and manage setlists with their bands
- Born from building my web app tutorial series 🌐 /atcs-wang/inventory-webapp-tutorial-series

AI Algorithm Visualizers

🌐 /atcs-wang/AI_Lab1_Search 🌐 /atcs-wang/AI_Lab2_Games

- Interactive visualizers [**Python, tkinter**] for Search and Game Tree algorithms
- Abstract and extensible framework for algorithms and applications. Includes concrete examples like grid-maze and abstract-graph path-finding, 8-puzzle, connect-four, nim, and "Tron"

⚙️ Skills

Proficient with Java, Python, JavaScript, MySQL, Excel

Experience with Windows [cmd, powershell], Unix/Linux [bash], Git, AWS

Qualities Quick learner, strong communicator & collaborator, big on code style & readability, math nerd