James Wang

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EDUCATION

Carnegie Mellon University   **Pittsburgh, PA**
Bachelor of Science in Statistics and Machine Learning, Minor in Computer Science   December 2025
Overall GPA: 4.0/4.0

RELEVANT COURSEWORK

Distributed Systems	Software Structures for User Interfaces	Principles of Software Construction
Autonomous Agents	Networking and the Internet	Parallel and Sequential Data Structures and Algorithms

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SKILLS

Technical: React, TypeScript, CSS, Python, Django, Java, SQL, Git/GitHub, AWS S3 + EC2, REST, Docker, Yarn/npm, R, Cursor AI, Figma
Language: English, Chinese, Japanese

WORK EXPERIENCE

Klaviyo   **Boston, MA**
Frontend Software Engineering Intern   June 2025 – August 2025
- Diagnosed bug in A/B testing framework's cache logic with PyCharm, shipping same-day fix to revalidate an experiment with 10.1K users
- Led end-to-end modernization of SMS subscribe links interface with updated React components, lifting ARR from SMS sends by $230,791
- Improved exception handling for Django backend services integrated with Shopify, reducing non-actionable Sentry alerts by 1,269 a month
- Automated creation of SMS compliant consent pages upon subscribe link generation, enabling 1-click workflow for creating shareable link
- Partnered with PM and Designer to conduct User Acceptance Testing, launching Subscribe Links V2 with 0 user-reported bugs week one

ConocoPhillips   **Bartlesville, OK**
Digital Strategy and Agile Intern   May 2024 - July 2024
- Developed a visual Python tool utilizing Jira's REST API to automate identifying employees by Agile Team for 23 organizations within IT
- Discovered over 2000 instances of data mis-entries and non-entries by creating a TargetProcess dashboard, informing future cleanup goals
- Demoed 2 Agile tools released in Q2 to 42 managers and supervisors, building support for the Agile Center of Excellence's Q3 initiatives
- Delivered 45 minute presentation on Citizen Development, guiding non-IT staff to pursue learning paths for automating their daily work

CMU Department of Philosophy   **Pittsburgh, PA**
Teaching Assistant   August 2023 - December 2023
- Moderated 14 discussions on contemporary moral issues for 37 students with 76% reporting deeper understanding in post-class surveys
- Raised average score on argument mapping problem sets by 31% over time by reviewing 500+ student submissions and providing feedback
- Mentored students 1:1 in weekly office hours to enhance their comprehension of readings and promote rigorous independent research

Trying Together   **Pittsburgh, PA**
Data Analyst Intern   May 2023 - August 2023
- Visualized Pittsburgh demographics and locations of 200+ pre-K facilities using ArcGIS to report on inequality in early childcare access
- Assembled US Census and employee survey data into a Looker Studio Dashboard for Trying Together's first-ever internal equity audit
- Created and documented procedure for automatically retrieving data from USDA's Meals for Kids API using SQL and Excel Power Query

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PROJECT EXPERIENCE

Dynamic Memory Allocator (malloc)   **Pittsburgh, PA**
- Engineered malloc using C & OS services, implementing free list segregation, block splitting, and boundary tag coalescing   Spring 2025
- Measured throughput and utilization with automated traces to support system optimizations increasing memory utilization to 74.4%

Digital Birthday Card   **Pittsburgh, PA**
- Crafted a digital birthday card template with interactive elements, music, and animations using HTML, JavaScript, and CSS   Spring 2024
- Deployed template publicly by hosting project on GitHub Pages, assisting people in celebrating birthdays regardless of distance

Automatic Sudoku App   **Pittsburgh, PA**
- Planned and implemented a 933-line desktop Python program enabling users to play Sudoku boards of various difficulty   Spring 2023
- Wrote an efficient backtracking algorithm capable of solving any legal Sudoku board that also provides the user with hints during play

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HONORS AND AWARDS

Carnegie Mellon Dean's List with High Honors   Spring 2025
Dataiku Future in Data Science Award   Spring 2024