James Wang

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EDUCATION

Carnegie Mellon University   **Pittsburgh, PA**
Bachelor of Science in Statistics and Machine Learning, Minor in Computer Science   May 2026
Overall GPA: 4.0/4.0

RELEVANT COURSEWORK

Methods for Statistics & Data Science	Introduction to Machine Learning	Parallel and Sequential Data Structures and Algorithms
Fundamentals of Programming	Principles of Imperative Computation	Principles of Software Construction

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SKILLS

Technical: Python, JavaScript, TypeScript, Java, Git, HTML/CSS, React, Power BI, Excel, SQL, Jira, R, ggplot
Language: English, Chinese, Japanese

WORK EXPERIENCE

ConocoPhillips   **Bartlesville, OK**
Digital Strategy Implementation and Agile Intern   May 2023 - July 2023
- Developed a Python tool utilizing Jira's REST API to automate identifying employees by Agile Team for 23 organizations within IT
- Conducted routine audits of Agile System of Record in Jira/TargetProcess to identify and correct misentered dependencies and work items
- Discovered over 2000 instances of data misentires 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 a 45 minute presentation on Citizen Development and Agile principles to intern manager, scoring an "Exceeded Expectations"

Carnegie Mellon University Philosophy Department   **Pittsburgh, PA**
Teaching Assistant   August 2023 - December 2023
- Lead 14 discussions on contemporary moral issues for 37 students with 76% reporting deeper understanding in post-class surveys
- Improved average score on argument mapping problem sets by 31% by reviewing 500+ student submissions and providing feedback
- Collaborated with students during office hours to enhance comprehension of readings and encourage independent research

Trying Together   **Pittsburgh, PA**
Data Analyst Intern   May 2023 - August 2023
- Assigned themes to 531 open-ended survey responses using LDA topic modeling and pandas to understand local attitudes towards Play
- Visualized Pittsburgh demographics and locations of 200+ pre-K facilities using ArcGIS to report on early childcare inequality
- Assembled data from multiple sources into a Looker Studio report 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 Power Query

Carnegie Mellon Relationships Lab   **Pittsburgh, PA**
Research Assistant   January 2023 - May 2023
- Evaluated over 40 research papers on affective touch's relationship to sleep quality to support publication of a literature review
- Guided 53 participants through an experiment exploring potential of reciprocal self-disclosure as treatment for depression
- Presented a 10-minute talk discussing current research on touch-sleep connections to 2 faculty judges to motivate future studies on touch

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PROJECT EXPERIENCE

Digital Birthday Card   **Pittsburgh, PA**
- Crafted a digital birthday card template using HTML, Javascript, and CSS featuring responsive elements and animations   Spring 2024
- Shared template publicly by hosting project on Github Pages, assisting people in celebrating birthdays regardless of distance

Language Learning Dataset Graphic Report   **Pittsburgh, PA**
- Formulated various research questions leveraging a Language Learners Dataset to investigate patterns in language acquisition   Fall 2023
- Visualized key results as plots generated using R and ggplot2, publishing a R Markdown report of findings

Automatic Sudoku App   **Pittsburgh, PA**
- Planned and implemented 933-line 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 and a feature to give classic sudoku hints

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HONORS AND AWARDS

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