KEVIN ZHANG

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EDUCATION

Carnegie Mellon University

Bachelor of Science, Computer Science

June 2023 - Present *Pittsburgh, PA*

· Coursework: Principles of Functional Programming, Principles of Imperative Computation, Mathematical Foundations for Computer Science, Matrix Theory, Great Theoretical Ideas in Computer Science, Great Practical Ideas in Computer Science

SKILLS

- · C++, Java, Python, Git, JavaScript, Regex, JSON, HTML, CSS
- · Linux, MATLAB, LATEX, Visual Studio Code, IntelliJ, Github, MacOS, Windows
- · Parallel Programming, Data Analysis, Machine Learning

EXPERIENCE

Student Researcher

CMU Data Interaction Group

May 2024 - August 2024

Pittsburgh, PA

- · Working on the Mosaic project under Professor Dominik Moritz.
- Reduced client-to-server querying latency by around 10% through batching and parallelization, currently improving efficiency of caching query results to further reduce latency.

Fermilab
June 2021 - June 2023
Student Researcher
Batavia, IL

- · Deployed machine learning models that lowered lepton jet misclassification rates by 61.8% from the theoretical limit of cuts-based methods currently used in my group
- · Processed LHC Run II data and Monte-Carlo simulations for training and validating the afforementioned models

PROJECTS

Radiosity Engine

· A simple MATLAB rendering engine that works by applying the finite element method to solve the rendering equation for a given scene.

SELECTED AWARDS AND HONORS

- · 2×US Physics Olympiad (USAPhO) Bronze Medal (2022, 2023)
- · 3×American Invitational Mathematics Examination (AIME) Qualification (2021, 2022, 2023)
- · Score of 19 on the William Lowell Putnam Mathematical Competition
- · Math Chair of Mu Alpha Theta IMSA Chapter (2022 2023)
- · Vice President of Code Society (2021 2023)
- · Professional Physics Publication. "Prospects for a Search for Doubly Charged Higgs Bosons at the HL-LHC". Link.