Jason Lee

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Education

University of California, Berkeley **Aug 2021 - May 2025**
Bachelor of Arts in Computer Science, EECS Honors Program GPA: 3.78/4.0
Relevant Coursework:
CS 61B - Data Structures and Algorithms
DATA 8 - Foundations of Data Science
CS 70 - Discrete Math and Probability
CS 61C - Machine Structures
CS 169A - Software Engineering
EECS 127 - Optimizations in Model Engineering
CS 61A - Structure & Interpretation of Computer Programs
EECS 16A - Designing Information Devices and Systems
CS 170 - Efficient Algorithms & Intractable Problems
CS 188 - Artificial Intelligence
CS 180 - Computer Vision
CS 189 - Machine Learning

Work Experience

Cheating Detection Research **Jan 2024 - Present**
Research Team Lead Berkeley, CA
· Worked with a team of 4 students under Professor Dan Garcia at UC Berkeley to create a cheating detection algorithm
· Developed the algorithm which consisted of six rules that cross checked every pair of students for a given exam
· Integrated the cheat detection algorithm into PrairieLearn, an educational platform, utilizing real student data

Walmart Global Tech **Jun 2024 - Aug 2024**
Software Engineering Intern Sunnyvale, CA
· Developed a dynamic shopper journey visualizer by analyzing data collected from the Walmart Spark Driver App
· Collaborated with cross-functional teams to drive strategic initiatives, test new APIs, and support company growth
· Led a project leveraged by Walmart leadership to inform strategic decisions on optimizing their delivery app structure

Lab Assistant for CS 61A **Jan 2022 - Dec 2022**
University of California, Berkeley Course Staff Berkeley, CA
· Taught weekly lab sections with ~40 students and hosted office hours to guide new students in projects and homework
· Conducted one on one tutoring during class and created mini lectures as teaching material in lab sections
· Mastered Java, Python, SQL, and educational pedagogy to provide an engaging academic experience for students

Projects

HBSA Club Application *(link)* **Jan 2024 - Present**
· Integrated a club application service into the Berkeley HBSA website with user accounts for more than 18 clubs
· Created queries to combine response across multiple forms and a live application response sheet for club recruitment
· Communicated with each organization to create a user friendly application process used by more than 2500 students

Image Alignment and Colorization *(link)* **Aug 2024 - Sep 2024**
· Created an optimized image alignment algorithm using NCC and Gaussian pyramids for color image reconstruction
· Implemented multi-core parallelism and vectorization to reduce image processing time from 10 to 1 minutes per image
· Applied histogram equalization to enhance image contrast and canny edge detection for automatic cropping

Convolution **Apr 2023 - May 2023**
· Coded a C program to convolve two 2-dimensional matrices and analyzed possible ways of optimizing code
· Segmented runtime optimization into processes of loop-unrolling, SIMD, and MIMD while balancing overhead
· Sped up runtime by at least 8.6 times when testing on a randomly generated large convolution calculation

Leadership Experience

Vice President of Standards **Dec 2022 - Present**
Berkeley Interfraternity Council Berkeley, CA
· Formed a diverse committee of nine members of Berkeley students in fraternities to promote healthy Greek life
· Conducted Standards Board meetings to vote on subjects regarding Berkeley Greek life such as fraternity culture, growth of the student body, and public relations with the University

Skills & Interests

Programming Languages: Python · Java · Scheme · SQL · C++ · C · JavaScript · BigQuery
Tools and Frameworks: NumPy · Git · GitHub · JupyterLab · Node.js · React Native · PyTorch · NLTK · Scikit-learn · Circuit Design · RISC-V · OpenMP
Hobbies: Climbing · Painting · Cooking · Skiing