William J. Gan

EECS Master's student at UC Berkeley. Interested in computer vision and building machine learning systems.

https://wjgan.com
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Work Experience

Nuro, Localization and Mapping

June 2020 – August 2020, SWE Intern

Working on the Localization and Mapping team.

Google, Earth Engine

May 2019 – August 2019, SWE Intern

Analyzed climate model predictions data at the terabyte scale. Evaluated accuracy compared to historical values and identified temporal and geospatial trends in biases.

Google, Maps

May 2018 – August 2018, SWE Intern

Developed a tool to filter duplicates in Google's Point of Interest database. Enabled the Local Algorithmic Identity team to discover patterns in duplicated data and tune the model used to find them.

Academic Experience

BAIR

August 2019 – June 2020, Student Researcher

Researched approaches for applying explainable AI to out-of-distribution detection and other fields in Trevor Darrell's lab. Co-authored a paper on using saliency maps in continual learning.

EECS 126

January 2018 – May 2019, Reader / 8-hr TA
August 2019 – May 2020, Head TA

Led a 250-student upper division probability course. Taught 30-person discussion sections, wrote exam / homework problems, made policy decisions, and handled organizing / grading logistics.

Education

UC Berkeley

M.S. EECS
B.A. Computer Science, Math
GPA: 3.94/4.00

Relevant Coursework

Algorithms, Graphics, Machine Learning, Operating Systems, Optimization, Probability, Signals

Skills

Programming Languages

C/C++, Python, Java, SQL, HTML/CSS/JS, LaTeX

Technologies

NumPy, Matplotlib, Pandas, PyTorch, Flask, MapReduce

Projects

PyTorch

Currently contributing on Github. Developed a function to construct complex-valued tensors. Wrote C++ code for CPU and CUDA implementations.