Alex Derhacobian

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Education

Stanford University **Sept 2019 – Jun 2024**
B.S. and M.S., Computer Science. GPA: 3.9 *Stanford, CA*

Experience

Palantir Technologies **Jun 2023 – Present**
Software Engineer Intern *New York, NY*

- Developing the new Artifical Intelligency Platform (AIP) for Gotham, Palantir's government data analytics platform. Can't say much more

Microsoft **Jun 2022 – Sept 2022**
Research Intern *Cambridge, MA*

- Using optimization theory and applied mathematics to make ML more broadly applicable and explainable
- Creating toolkits for ML explainability, developing mathematical theory, collaborating w/ Senior Researchers

Stanford Future Data Systems Research Group **Dec 2020 – Present**
Research Assistant *Stanford, CA*

- Developing ML algorithms for large scale video analytics with Prof. Matei Zaharia and Tatsunori Hashimoto
- Building end-to-end ML pipelines, writing open source packages for AutoML, publishing papers

Parknav **Jun – Aug 2020**
Software Engineering Intern *San Francisco, CA*

- Trained object detection models for smart parking API, deployed on real-time video streams
- Debugged deep learning pipelines, designed sanity testing infrastructure, performed data processing

Selected Research Contributions and Projects

Reliably Selecting Rare Events in Large, Unstructured Datasets with Machine Learning, (VLDB 2023)
Daniel Kang, Alex Derhacobian, Kaoru Tsuji, Trevor Hebert, Peter Bailis, Tadashi Fukami, Tatsunori Hashimoto, Yi Sun, Matei Zaharia

Investigating Inference Costs and Security in Ensemble-Based Private Collaborative Machine Learning
Alex Derhacobian, Sasha Ronaghi, Maggie Gray

Exploiting Proximity Search and Easy Examples to Select Rare Events (NeurIPS 2021)
Daniel Kang, Alex Derhacobian, Kaoru Tsuji, Trevor Hebert, Peter Bailis, Tadashi Fukami, Tatsunori Hashimoto, Yi Sun, Matei Zaharia

Adaptive Prediction Sets with Class Conditional Coverage
Alex Derhacobian, John Guibas, Linden Li, Bharath Namboothiry

Technical Skills

Languages and Technologies: Python, C/C++, SQL, PyTorch, NumPy, Pandas, LaTeX, CUDA
Developer Tools: Linux, Docker, Bash, Vim, Emacs, Tmux, Git, AWS, Google Cloud

Selected Coursework

- Operating Systems
- Machine Learning
- Computer Vision
- Computer Security
- Parallel Computing
- Statistical Inference
- Linear Models
- Linear Algebra
- Real Analysis

In my free time, I enjoy running, playing squash, reading history books, and drinking coffee