Contact:
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Klint Qinami

github.com/klintqinami
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Technical Experience

Qualcomm, Inc. **Nov. 2021 — Present**
Staff Software Engineer *New York, N.Y.*

- Compiler developer targeting 4-way multithreaded VLIW DSP with wide-vector SIMD
- Accelerated key customer NLP networks by several orders of magnitude
- Designed and implemented critical dynamic tensor feature
- Improved a large set of benchmarks with bandwidth-maximizing LRU scheduling
- Replaced several thousand lines of pattern matching with a generic graph traversal

Reservoir Labs, Inc. **Jan. 2020 — Nov. 2021**
Senior Software Engineer *New York, N.Y.*

- Lead developer on project automating run-time software verification
- Architected and implemented polyhedral compiler integration with TVM
- Wrote non-affine CSE pass that dramatically improved polyhedral compilation time

Princeton University, Visual AI Lab **Sep. 2018 — Aug. 2019**
Ph.D. Student *Princeton, N.J.*

- Achieved two publications in top-tier conferences as a first year Ph.D. student
- Designed debiasing method for CV classifiers that outperformed adversarial debiasing

Columbia University, Graphics Group **Jun. 2016 — May 2018**
Undergraduate Researcher *New York, N.Y.*

- Derived a knot-untangling optimization based on linking numbers
- Helped pilot a new graduate geometry processing course by creating assignments from research papers

Education

Columbia University Sep. 2014 — May 2018
Bachelor of Science in Computer Science *GPA: 3.9/4.0*

Select graduate-level coursework: ML, PL, OS, Quantum Computing, Algebraic Topology, Databases, PDE, Modern Algebra, Differential Geometry, Probability
Honors & Awards: Thompson-Muñoz Scholar, Tau Beta Pi, Engineering Honors Society, Dean's List of Distinguished Students, all semesters
Teaching Assistant: Linear Algebra, Computer Animation, Digital Geometry Processing, Intro to Combinatorics and Graph Theory

Skills

Languages: C, C++, Python, Java, Rust, OCaml, Matlab, JS, SQL
Software: PyTorch, TensorFlow, Cuda, TVM, Glow, OpenMP, Gurobi, Mosek, LibIgl, Eigen, Git, Mercurial, GDB, Valgrind, Cachegrind, Mathematica, Unix, PreForm, Docker, Slurm, Flame Graphs, LaTeX

Publications

Zeyu Wang, **Klint Qinami**, Yannis Karakozis, Kyle Genova, Prem Nair, Kenji Hata, and Olga Russakovsky. Towards fairness in visual recognition: Effective strategies for bias mitigation. In *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020.

Kaiyu Yang, Klint Qinami, Li Fei-Fei, Jia Deng, and Olga Russakovsky. Towards fairer datasets: Filtering and balancing the distribution of the people subtree in the imagenet hierarchy. In *ACM Conference on Fairness, Acount- ability and Transparency (ACM FAccT)*, 2020.