

EDUCATION

- **University of California, Los Angeles** Los Angeles, CA
Masters of Science in Computer Science *Sept. 2024 – June 2026*
 - Advised by Eunice Jun
- **University of California, Los Angeles** Los Angeles, CA
Bachelors of Science in Computer Science *Oct. 2020 – March 2024*

EXPERIENCE

- **Excavaite Inc** Palo Alto, CA
CTO & Co-founder *February 2024 – April 2026*
 - Built terabyte-scale patent corpus with RaBitQ-indexed vector search
 - Designed agentic systems for patent leakage risk prevention, automated patent drafting, and claim chart generation; instrumented automated evals to gate model and prompt changes
 - Raised pre-seed (\$400k+); landed 6-figure pilot with Fortune 500 partner; managed 8+ contractor team
- **VAIL Lab** Los Angeles, CA
Undergraduate Researcher *June. 2023 – June. 2024*
 - Worked on Diffusion Models for synthetic driving data generation, resulting in NeurIPS 2024 publication
 - Created unified terabyte scale driving dataset by combining 4k Youtube driving footage and open source datasets
- **Confluent** Mountain View, CA
Software Engineer Intern *June. 2023 – Aug. 2023*
 - Created a last-resort metadata recovery tool (Java) for the Kafka Metadata Team to reduce metadata-related Kafka cluster failure recovery time from hours to minutes
 - Wrote a user-facing runbook and design document to support proper tool usage and ongoing development
- **Meta** Menlo Park, CA
Software Engineer Intern *June 2022 – Aug. 2022*
 - Created a centralized Hack (PHP) Code Generation framework for the Metrics Platform Governance team; reduced time needed to onboard data into the platform from ~1 hr to ~5 min
 - Improved script performance by adding parallelism, reducing runtimes by 4x
- **Agrofocal Technologies** San Jose, CA
Machine Learning Intern *June 2021 – Nov. 2023*
 - Implemented a mixed-precision quantization pipeline, improving inference pipeline throughput over 80% and decreasing latency 2x
 - Implemented state-of-the-art model architecture, improving object detection accuracy over 0.15 mAP

PROJECTS

- **CLIP Explainability Study** | *PyTorch, NumPy* March 2023
 - Studied CLIP (Contrastive Language-Image Pretraining) models across varying pre-training dataset sizes; visualized attention heatmaps and benchmarked image classification performance to characterize how data scale shapes learned representations

SELECTED PUBLICATIONS

* denotes equal contribution

- **Syrup: An Intermediate Representation for Bidirectional Human-AI Scientific Reasoning.** *Under review at the 39th ACM Symposium on User Interface Software and Technology (UIST 2026).* Michael Simon*, Yuwei Xiao*, Naisha Agarwal, Eunice Jun.
- **SimGen: Simulator-conditioned Driving Scene Generation.** *In Proceedings of the 38th Advances in Neural Information Processing Systems (NeurIPS 2024).* Yunsong Zhou, Michael Simon, Zhenghao Peng, Sicheng Mo, Hongzi Zhu, Minyi Guo, Bolei Zhou.