Daniel Zeng

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Stanford University *Expected June 2023*
M.S. Computer Science
University of California, Berkeley *May 2021*
B.A. Computer Science GPA 3.96

Relevant Coursework (Berkeley)
CS285 - Deep Reinforcement Learning (graduate)
CS189 - Machine Learning, CS182 - Neural Networks
CS188 - Artificial Intelligence, CS186 - Databases
CS170 - Algorithms, CS162 - Operating Systems
CS70 - Discrete Math/Probability, CS161 - Security

Skills
Languages: Python, Java, Golang, Bash, Javascript, C/C++, Assembly (RISC-V)
Platforms/Tools: TensorFlow, NumPy, PyTorch, Git, AWS, Kubernetes, Terraform, SQL, gRPC, Make, Jupyter Notebooks

Experience

SNAP Group | Graduate Researcher, Stanford University *Sept 2021 - Present*
Machine learning research, with postdoc Tailin Wu and advised by Prof. Jure Leskovec
- Researching neural-symbolic visual concept reasoning for few-shot learning on the ARC dataset
- Improving and tuning vision and RL pipeline for object-relations grounding within each task

Yu Lab | Undergraduate Researcher, ICSI, UC Berkeley *Sept 2020 - Aug 2021*
Machine learning computer vision research, with Tsung-Wei Ke and advised by Dr. Stella Yu
- Researched unsupervised image representation learning using pixel-level contrastive learning
- Implemented and benchmarked featurizations on semantic segmentation image embeddings
- Investigated spatial and structural relationships on classification and retrieval performance

Stripe | Software Engineer Intern, Data Platform Infrastructure *May 2020 - Aug 2020*
- Implemented, designed Hadoop command proxy service with Go, gRPC on AWS, Kubernetes
- Deployed service to production which proxied 1000+ commands so far (reliable, scalable)
- Built observability dashboard for service via SignalFX and alerting, detectors via Terraform

AutoLab | Undergrad Researcher, Berkeley Artificial Intelligence Research *Feb 2019 - Feb 2020*
Machine learning research, with postdoc Dr. Ajay Tanwani and advised by Prof. Ken Goldberg
- Researched semi-supervised domain adaptation using adversarial representation learning
- Implemented and benchmarked adaptation algorithms, network architectures, metric learning
- Optimized adaption by aligning marginal and conditional distributions in latent feature space

Microsoft | Software Engineer Intern, Azure Production Infrastructure *May 2019 - Aug 2019*
- Designed, developed analytics tool to automate queries for optimizing customer experience
- Built productivity tooling to empower visualization and observability in Azure infra systems

NASA | Software Engineer/Research Intern, Ames Research Center *June 2018 - Aug 2018*
- Developed an emulator for cyber security attacks on Air Traffic Management (ATM) system
- Built and tested functionality to generate and visualize a wide range of attack scenarios
- Created internal tooling to configure and interface ATM framework components with emulator