

Daniel Zeng

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U.S. Citizen

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University of California, Berkeley
Computer Science, Bachelor's

May 2021
GPA 3.945

Relevant Coursework (*in progress)

CS285* - Deep Reinforcement Learning (graduate)
CS189 - Machine Learning, CS170 - Algorithms,
CS188 - Artificial Intelligence, CS186 - Databases
CS61B - Data Structures, 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

Yu Lab | Undergraduate Researcher, ICSI, UC Berkeley

Sept 2020 - Present

Machine learning computer vision research, advised by Tsung-Wei Ke and Dr. Stella Yu

- Researching unsupervised image classification using pixel-level contrastive learning
- Implemented and benchmarked featurizations on semantic segmentation image embeddings
- Investigating 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, advised by postdoc Dr. Ajay Tanwani and Prof. Ken Goldberg in AutoLab

- 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
- Implemented methods to model aircraft trajectory from specified origin to destination
- Created internal tooling to configure and interface ATM framework components with emulator

Cal Launchpad | Project Leader/Machine Learning Developer, UC Berkeley

Sept 2017 - May 2019

- Led team of 8 developers to build generative adversarial networks for food image generation
- Developed educational slides and TensorFlow notebooks to teach machine learning

Dal Bó Lab | Undergrad Researcher, UC Berkeley Haas School of Business

Sept 2017 - May 2018

Bhatia Lab | Research Intern, Boston University

July 2016 - Aug 2016