

Advait Patel

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EDUCATION

University of Illinois - Urbana-Champaign

Champaign, IL

BS in Computer Science – GPA: 3.8/4.0

Aug. 2022 – December 2025

Relevant Coursework: Computer Vision (Grad), Deep Learning for Robotics (Grad), Nonlinear Programming, Machine Learning, Algorithms, Probability/Stats, Data Structures, Systems Programming, Linear Algebra

EXPERIENCE

Dyna Robotics

September 2025 – December 2025

Research Intern

Redwood City, CA

- Developed, trained, and evaluated novel architectures and auxiliary tasks for pretraining robot foundation models. Owned the full pipeline: data aggregation and processing, model implementation and training, and evaluation.
- Implemented a psuedo-labelling pipeline using open-source dense prediction models for synthetic data generation.
- Developed a custom FastAPI inference server to evaluate VLAs developed by external parties.

Anduril Industries

May 2025 – August 2025

Software Engineer Intern

Costa Mesa, CA

- Developed performance benchmarks and optimizations in Rust for Anduril's hardware interface layer.
- Optimized the performance of TCP calls between hardware resources, decreasing latency by more than 200x and increased throughput for mission-critical applications.
- Integrated benchmarking suite with CI tests and with Palantir Foundry, allowing customers easy access to metrics.

University of Illinois

November 2024 – May 2025

Undergraduate Researcher

Champaign, IL

- Explored evaluation of robotics policies through Real2Sim using 3D Gaussian Splatting and MuJoCo.
- Aligned point clouds between real world, Gaussian Splat, and MuJoCo to create a visually realistic simulation.
- Developed end-to-end pipeline for evaluating robot learning policies using a custom hybrid rendering method.

Capital One

June 2024 - August 2024

Software Engineer Intern

McLean, VA

- Developed a dashboard to derive insights from division-level AWS usage using Typescript and React.
- Decreased loading time on application page by 10x by optimizing GraphQL queries.

Yield Protocol

May 2023 – August 2023

Software Engineer Intern

Remote

- Finetuned SOTA large language models on enterprise-grade hardware with AWS Sagemaker and Huggingface APIs.
- Created a pipeline for a custom QA dataset, resulting in over 4,000 unique data points for model finetuning.

LEADERSHIP/PROJECTS

SIGRobotics (ACM @ UIUC) | Founder, Chair | Python, ROS 2, PyTorch, MuJoCo

April 2024 – Present

- Trained pick-and-place imitation learning policies using PyTorch, LeRobot, and open-source robotic arms.
- Developed and open-sourced LeKiwi, a low-cost mobile manipulator, in collaboration with Huggingface/LeRobot. LeKiwi now has 1K+ stars on GitHub and has been built hundreds of times around the world.

Robot Hackathon Project | Python, PyTorch, Huggingface

- Won the second place prize and the Fashion Award at the NYC Robot Arm Hackathon.
- Built a T-shirt folding robot by training an ACT imitation learning policy on 85 demonstrations using LeRobot.

UIUC Gies Disruption Lab | Technical Lead | Python, Huggingface, AWS

January 2023 – December 2023

- Led a team of 6 software engineers to develop an AI tutor specific to UIUC courses using finetuned open-source LLMs, vector databases, and LangChain API integrations.

AI Chess Pipeline | OpenCV, Python, PyTorch, OpenAI

- Developed a pipeline that takes in a top down view of a chess board and determined board state using a Resnet-18.
- Developed an AI-assisted data annotation platform using GPT-4o-mini in order to label 1.5k images.

SKILLS

Rust, Python, PyTorch, C, C++, Amazon Web Services (AWS), Kotlin, OpenCV, SQL, JavaScript, Typescript, Git/GitHub, Flask, React, PyTorch, Java, Keras, Pandas, NumPy, Matplotlib, Docker, Linux/Ubuntu, ROS