

Prince Patel

princep@mit.edu | linkedin/in/princegpatel | ppatel22.github.io

EDUCATION:

Massachusetts Institute of Technology

BS, Computer Science, Artificial Intelligence, and Mathematics, GPA: 4.7, SAT Math: 800, SAT Reading: 740

Expected 2026

- Relevant Coursework: Multi-Agent Learning (6.S890), Advanced Algorithms (6.1220), Computer Vision (6.8300), Statistics (18.650), Deep Learning (6.S898), Linear Algebra (18.06), Differential Equations (18.03)
- Organizations: South Asian Association of Students (Big Events Committee), Phi Kappa Theta (Risk Manager)

WORK EXPERIENCE:

Palantir

May 2024 - Sep. 2025

Forward Deployed Engineer Intern

- Built and deployed an API (~12k daily uses) for predicting DRGs for active stays, beating previous accuracy by 300%
- Saved over 1,000 appeal writer hours at largest health system in US by developing data-backed AI tools
- Skills: *LLM applications, TypeScript, PySpark, client relations*

Stealth Robotics Startup

Sep. 2024 - May 2025

Software Engineer

- Decreased CPU usage by 20% by replacing ROS2 with a custom IPC library written on ZeroMQ, preventing overheating on the 20,000+ devices shipped so far
- Built test infrastructure for tracking software to enable robust object tracking on a resource constrained device
- Skills: *system design, C++, ZeroMQ, ROS2*

Mind Company

May 2024 - Sep. 2024

Founding Engineer, ML Research

- Surpassed SOTA models by up to 10% on benchmarks for various intention decoding from non-invasive EEG
- Developed a data collection web app for ~100 daily subjects, creating the largest labeled EEG dataset in 2 months

Mach Industries

Jan. 2024 - Feb. 2024

Software Engineer Intern

- Enhanced range on an autonomous glider plane by 10x by developing a flight controller in C++ using PID loops
- Engineered a 10-fold increase in displacement measurement accuracy by fusing a CNN-powered optical flow calculator with IMU readings and applying an EKF, overall improving VTOL hovering stability
- Skills: *C++, PyTorch, object-oriented programming, TypeScript*

Epicore Biosystems

June 2023 – Sep. 2023

Data Science Intern

- Improved accuracy of a hydration-tracking wearable to 95% by implementing a generalized linear model for forecasting sweat rate with accelerometer and temperature data inputs

Biomechatronic Group, MIT Media Lab

Mar. 2023 – Dec. 2023

Undergraduate Researcher

- Predicting motor control of upper extremity amputees and translating to continuous prostheses control
- Skills: *PyTorch, pandas, numpy, computer vision, brain-computer interfaces*

Marine Robotics Lab, MIT CSAIL

Dec. 2022 – Apr. 2023

Undergraduate Researcher

- Trained a locomotion policy for a quadruped robot in Isaac Gym using a PPO reinforcement learning program
- Skills: *PyTorch, C/C++, reinforcement learning, robotics, computer vision*

EXTRACURRICULAR EXPERIENCE:

MIT Class Council

Mar. 2023 – Present

Vice President

- Expanding the impact of class-wide initiatives by collaborating with campus organizations to forge partnerships

MIT Capital Partners

Mar. 2023 – Present

Sourcing Principal

- Demonstrated expertise in analyzing industry trends, competitive landscapes, and growth potential of startups

PROJECTS:

Multimodal Embeddings for High-Fidelity Image Compression

May 2024

- Experimented with image segmentation and LLM captioning for encoding and a diffusion model for decoding

Denoising EMG Signals

Dec. 2023

- Reduced noise in raw sEMG data by 300% by developing and training a denoising autoencoder model with self-attention in the encoder. Communicated findings via a scientific blog post.