

ANKIT MEHTA

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EDUCATION

Georgia Institute of Technology

Aug 2026 – May 2028

M.S. Robotics, School of Interactive Computing — Concentration: Embodied AI & Mechanics

Georgia Institute of Technology

Aug 2019 – May 2023

B.S. Computer Science — Concentration: Artificial Intelligence & Information Networks | GPA: 3.79, Highest Honors

RESEARCH & PROJECTS

Intelligent Vision & Automation Lab

May 2026 – Current

- **Replacing a Kalman filter with a GRU** to better predict velocity in static and dynamic environments for a non-holonomic system. **Trained a GRU on 922K samples** with novel sector aspect-ratio and density rate-of-change features to predict future gap congestion, **reducing reactive planning failures** in dynamic gap-based navigation. Currently applying an **imitation-learning approach** to train a top-level behavior manager from manual gap-based planning. [Link](#)

TID Lab — Human-Computer Interaction (HCI)

Aug 2021 – Mar 2023

- **Built a Naïve Bayes language classifier** in fastText for low-resource Ethiopian languages to address misinformation and hate speech; applied the **graphSAGE graph-CNN** for inflammatory-user classification and used the Universal Sentence Encoder and **BERT** to assess semantic textual similarity across Twitter and Facebook posts. [Link](#)

Swarm Robotics — Search & Rescue

Jun 2026 – Current

- **Built a decentralized two-quadruped search-and-rescue system** in PyBullet, integrating PID/gait locomotion control, IR ray-cast perception, and a **UDP-based communication protocol with covariance-intersection belief fusion** driving potential-field navigation and distributed area search — with no central controller or shared memory between robots. [Link](#)

LLM Trading & Financial Chatbot

Sep 2022 – Mar 2026

- **Compared LLM trading-agent performance** across varying time-series data and built an **NLP-driven portfolio-management chatbot** supporting sector classification, stock recommendations, and market-data visualization; the **portfolio strategy won first prize in the 2023 BlackRock Challenge**. [Link 1](#), [Link 2](#)

EXPERIENCE

Full Stack Software Engineer II | NCR Voyix

Jul 2023 – Jul 2026

- **Architected and maintained tree-based hierarchical caching systems** with UIs for group-based role management and department categorization; **reduced onboarding time 20%** by incorporating user feedback and optimizing code efficiency.
- **Launched a novel point-of-sale product** for SMB markets leveraging trusted web activities with custom printer and scanner methods interfacing directly with Java SDKs, increasing flexibility and accessibility at checkout.
- Served as **software lead on a TypeScript payments integration** for POS systems across APAC and EMEA, building reusable distributed uber-JARs that integrate seamlessly with downstream clients consuming the payments service.
- **Streamlined self-checkout** via ID pre-validation and real-time facial recognition for age-verified purchases, **reducing average queue wait times by 23.6s**.

Software Engineering Intern | Cypress.io

Aug 2022 – Dec 2022

- **Implemented the Run All Specs feature** from a multi-folder perspective using Vue reactivity, recursive spec-list scaffolding, and a fuzzy-sort mechanism. [Link](#)
- Contributed to the **In-App Cloud Integration initiative** using code-first schema generation from type definitions with GraphQL & URQL, Vue, Tailwind, and Docker. [Link 1](#), [Link 2](#)
- **Built and automated a nightly build system** testing the latest Cypress binaries against pre-release framework and dev-server packages, integrating GitHub Actions and Slack notifications to significantly cut manual testing effort. [Link](#)

PUBLICATIONS

Mehta, A. et al. (2022). *Hate Speech and Offensive Language Detection in Ethiopian Languages*. International Conference on Learning Representations (ICLR) Workshop. arxiv.org/abs/2208.09941

SKILLS

Languages, Infrastructure & Tools: Python, Golang, Java, JavaScript, TypeScript, C, Assembly, Node.js, React, React Native, Vue, MongoDB, Docker, Kubernetes, Helm, GCP, Pub/Sub, GraphQL, Git, GitHub Actions, Webpack, Vite

ML / AI / Robotics: PyTorch, TensorFlow, scikit-learn, ROS, PyBullet, MuJoCo, Gymnasium, fastText, graphSAGE, BERT, OpenCV, YOLO, Pandas, NumPy, NLTK, GloVe

Concepts: Embodied AI, Robot Navigation, Imitation & Reinforcement Learning, Distributed Systems, Microservices, NLP, HCI, Embedded Systems