

# YASH JAKHOTIYA

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## EDUCATION

### GEORGIA INSTITUTE OF TECHNOLOGY, ATLANTA

MS, COMPUTER SCIENCE. GPA: 4.0/4.0

AUGUST 2021 – MAY 2023

- Specializing in **machine learning** and robotics.
- Research work with [Prof. Zsolt Kira](#) on continual learning, novel category discovery and LLM editing.
- Courses: Computer Vision, Deep RL, ML with Limited Supervision, Natural Language Processing, Systems for ML, etc.*

### COLLEGE OF ENGINEERING, PUNE

B. TECH, COMPUTER ENGINEERING. GPA: 9.2/10

AUGUST 2016 – MAY 2020

- Minor in **Financial Engineering**. Represented college thrice in **ACM ICPC** [regionals](#).
- Courses: Calculus, Discrete Math, Linear Algebra, Probability and Stats, Algorithms, Compilers, Computer Organization, Databases, Data Structures, Digital Logic, Microprocessors, Networks, Operating Systems, Programming Languages, etc.*

## WORK EXPERIENCE

### AMAZON

PALO ALTO

APPLIED SCIENTIST INTERN

MAY 2022 – AUGUST 2022

- Worked with the [Visual Search and Augmented Reality team](#) on large-scale vision **transformers**.
- Improved Amazon's [Shop-the-Look](#) recall@10 by **24%** using high-attention patches in **image retrieval**.

### D.E. SHAW

HYDERABAD

MEMBER TECHNICAL, QUANT SYSTEMS

JULY 2020 – JULY 2021

SUMMER INTERN

MAY 2019 – JULY 2019

- Deployed **RBAC** and a **config validation service** for internal Elastic stack. Brought down high-impact config errors to **0**.
- Wrote base OCI images for **firm-wide Kubernetes setup**. Directly managed 3000 on-prem Linux hosts.
- As an intern, **automated** infrastructural alert assignments from **natural language understanding** of alert descriptions.
- Pushed to production** before end of the internship, reducing the workload of an entire team by **86%**.

### KUBEFLOW, GOOGLE CLOUD

REMOTE

GOOGLE SUMMER OF CODE STUDENT

JUNE 2020 – AUGUST 2020

- Deployed efficient **MLOps** workflows using all 6 components of Kubeflow in ML pipeline [notebooks](#) for two NLP tasks.

### INDIAN INSTITUTE OF SCIENCE

BANGALORE

SUMMER RESEARCH INTERN

MAY 2018 – JULY 2018

- Modeled [human dance sequences](#) at [video analytics lab](#) using **RNNs** and **GANs** with **<0.1** normalized L2 recon loss.

## PUBLICATIONS

- [Improving Assistive Robotics with Deep Reinforcement Learning](#), **NeurIPS 2022** Deep RL workshop.
- [Adversarial Attacks on Transformers-Based Malware Detectors](#), **NeurIPS 2022** Machine Learning Safety workshop.
- [It Takes One to Know One? Idiomatcity Detection using Zero and One-shot Learning](#), **NAACL 2022** SemEval workshop.

## SELECTED PROJECTS

- COEP's 2<sup>nd</sup> Student Satellite Initiative**: Wrote a BCH Error Correction module to counter space radiation bit flips.
- Open-source editor**: Extended [shnupta/bric](#) with UNIX's Exuberant Ctags-based code navigation functionality.
- Federated Learning**: [Evaluated](#) FL tradeoffs for graph neural networks on a molecular property prediction problem.
- Mutual Information Regularization**: [Contributed](#) the first-known PyTorch implementation of the KSG MI estimator.

## LEADERSHIP

- Founded** [Association of Students of CE and IT, COEP](#), a common platform for students to encourage technical dialogue, and organized talks, contests and tutorials on competitive coding and open-source software.

## PROFESSIONAL SKILLS

- Languages**: Python, Go, SQL, Puppet, Linux Shell Scripting, Matlab, C++ and C.
- Frameworks**: JAX, PyTorch, TensorFlow, Keras, HuggingFace, pandas, sklearn, NumPy, SciPy, Matplotlib, Django, Flask.
- Tools**: Elasticsearch, Prometheus, Grafana, Kafka, Jenkins, Phabricator, Git, Confluence, Jupyter.
- Platforms**: Kubernetes, Docker, AWS, GCP, Linux - RHEL, Fedora, Debian, Ubuntu.