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.

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..

WORK EXPERIENCE

PALANTIR — NEW YORK

SOFTWARE ENGINEER, BACKEND — JULY 2023 – PRESENT

- **Engineered** LLM and embedding nodes in Java for Pipeline Builder, serving **250+** commercial and national security clients.
- Built an **AI-powered** maintenance system for Panasonic, cutting technician training time by **80%**. Secured a **$60M** contract.

AMAZON — PALO ALTO

APPLIED SCIENTIST INTERN — MAY 2022 – AUGUST 2022

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

D.E. SHAW — HYDERABAD

MEMBER TECHNICAL, QUANT SYSTEMS — JULY 2020 – JULY 2021

SUMMER INTERN — MAY 2019 – JULY 2019

- Developed **RBAC** and config validation for **Elastic** stack, wrote OCI images for **Kubernetes**. Managed 3000 Linux hosts.
- As an intern, **automated** infrastructural alert assignments using **NLP**, reducing a team's workload 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 IISc's Vision and AI 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? Idiomaticity Detection using Zero and One-shot Learning, **NAACL 2022** SemEval workshop.

SELECTED PROJECTS

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

LEADERSHIP

- **Founded Association of Students of CE and IT, COEP,** a common platform for students to engage in technical dialogue, and organized talks, contests and tutorials on competitive coding and open-source software.

PROFESSIONAL SKILLS

- **Languages:** Java, Scala, Python, Go, SQL, Puppet, Ansible, Linux Shell Scripting, Matlab, and C/C++.
- **Frameworks:** Undertow, Jersey, Guava, Django, Conjure; JAX, PyTorch, TensorFlow, HuggingFace, Spark, Flink, Kafka.
- **Tools:** Elasticsearch, Prometheus, Grafana; Jenkins, CircleCI, Phabricator, Git; Jupyter.
- **Platforms:** Palantir Apollo, Kubernetes, Docker, AWS, GCP, Linux - RHEL, Fedora, Debian, Ubuntu.