Khalid Shaikh

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Education

- **Georgia Institute of Technology** — Atlanta, USA
  Master of Science in Computer Science - Specialization in ML (GPA - 4.0/4.0) — *Aug 2023 – May 2025*
  - Relevant coursework: Explainable AI, Efficient Machine Learning, Systems for ML.
- **University of Mumbai** — Mumbai, India
  Bachelor of Engineering in Computer Engineering (GPA - 8.79/10) — *Jun 2017 – Jun 2021*

Experience

- **Apple** — San Diego CA, US
  Machine Learning Engineer - iCloud Mail Intelligence — *June 2025 - Current*
  - **Leading semantic search** at Apple Mail, with a focus on Query Understanding, Retrieval, Ranking.
  - Built durable **agentic data pipelines** that self-heals with HIL achieving **90%** accuracy on-par with human raters.
  - Engineered agentic flow that models search as dense knowledge graph, talk selected at **Apple ML Summit '26**
- **Apple** — Cupertino CA, US
  Machine Learning Engineer Intern - iCloud Mail Intelligence — *May 2024 - Aug 2024*
  - Developed a novel method to detect inconsistent labels, reducing data inspection by **96%** for Mail Categorization.
  - Built a multi-model pipeline stacking classification model and a 3B LLM with **LoRA adapter** for event extraction
  - Selected as one of the **top 5** intern projects out of ∼70 in the ASE org for presentation to Jeff Robin (VP).
- **BrowserStack** — Mumbai MH, India
  Senior Software Development Engineer — *Jun 2021 - Aug 2023*
  - Developed an ELT pipeline using **PySpark** and GCP tools to facilitate customer data analysis with Random Forest. This initiative led to a **70%** increase in actionable insights for enhancing product experience.
  - Utilized K-means and DBSCAN clustering to segment customers, enhancing engagement strategies and boosting customer response rates by **35%** in 3 months.
- **Swift Robotics** — Mumbai MH , India
  Software Engineer Intern — *Jun 2020 - Jun 2021*
  - Implemented ORB-SLAM2 and scene segmentation algorithms for COVID-19 disinfection robots, enabling precise navigation and intelligent prioritization of high-touch surfaces, achieving **85%** area coverage while disinfecting.

Publications

- **Knack: On-the-Job Learning for Fixed-Option and Ranking Tasks**
  Khalid Shaikh
  Manuscript under internal review at Apple — `[In review]`
- **Linear Predictability of Attention Heads in Large Language Models** [paper]
  Khalid Shaikh, Asmit Kumar Singh, Rebecca Christopher Dsouza, Shikhar Shiromani
  2026 ACL Workshop on Sustainable and Efficient Language, Vision, and Action Models — `[SELVA@ACL'26]`
- **Unveiling and Harnessing Hidden Attention Sinks: Enhancing Large Language Models without Training through Attention Calibration** [paper]
  Zhongzhi Yu, Zheng Wang, Yonggan Fu, Huihong Shi, Khalid Shaikh, Yingyan (Celine) Lin
  2024 International Conference on Machine Learning — `[ICML'24]`

Technical Skills

- **Languages**: Python, Java, C++, Swift, Go, SQL. **ML/LLM**: PyTorch, Hugging Face, PEFT/LoRA, vLLM, Triton.
- **Data/Cloud**: PySpark, Airflow, Kafka, AWS, GCP. **Tools**: OpenCode, OpenClaw, MCP, Docker, Kubernetes.

Projects

- **Stretch Robot (RAIL Lab)**: Ported Fetch stack to Stretch; ROS executor chains **11 skills** for pick-and-place.
- **I See You! XAI for RL**: Highlighted adversarial attacks in multi-agent RL using reward decomposition.
- **Percy Chrome Extension**: Conceived, designed and built v1 on PDF.js; no-code visual testing for manual QA.

Achievements, Awards and Leadership

- **JN Tata Scholar 2023** - Recipient of the 130 year old prestigious scholarship award for abroad studies.
- Team Lead & Winner of National Level **Smart India Hackathon** 2020 - Cisco DevNet's Cruise Tourism Problem.