Akshay Gupta

akshaykg42.github.io | akshaykg42[at]gmail

Experience

PLAID | Software Engineer
Risk Engineering | Jan 2022 – Current | Remote (Seattle)

- → Helped grow Plaid's abuse team into the new risk engineering team (3 to 10 engineers), building out a versatile risk platform enabling effortless integration with Plaid's current and upcoming products (Auth, Transfer, RUX, Signal).
- → Led/leading multiple quarterly projects to integrate our risk/fraud stack with our new payments products and develop new fraud-signal-gathering tools for the risk platform. Worked with product teams to harden our payments fraud defenses and make us compliant with anti-money-laundering and data governance policies.
- → Served as an intern mentor for Summer 2022, which involved scoping out potential projects and supporting my intern as they specced out and executed on their projects over the Summer. My intern will be returning to Plaid full-time in 2023!

Abuse Engineering | Feb 2021 – Dec 2021 | Remote (Austin → Seattle)

- → Worked on reducing abuse and monetary losses via credential stuffing attacks and microdeposit fraud by shipping a reCAPTCHA Enterprise v3 integration for Plaid and adding new features to our anti-abuse stack.
- → Set up a system for tracking fraud/abuse events and collecting labeled data to be used for training ML models.

Intern - Independent Data Access | Summer 2020 | Remote (Austin)

- → Saved hundreds of engineering hours through extensive automation by building an interactive CLI in Go that allows users to securely connect to and interact with android devices on a remote cluster through API endpoints on a Controller running on the cluster, the android debug bridge (adb) and screen mirroring.

FACEBOOK | Software Engineering Intern
Hate Speech Engineering | Summer 2019 | Seattle

- → Built an end-to-end system for measuring content level hate speech prevalence on third party data to increase market intelligence, using multiple Dataswarm Pipelines in Python and a bot in Hack, making use of Hive and running internal NLP classifiers on third party data.

LEGITRADE LLC | Owner
Waste Paper Trading | August 2016 - Present | Austin → Seattle

- → Profitable business with over $2 million in sales revenue aiding recycling by finding solutions for over 7,900 tons of paper destined for landfills.
- → I handle all aspects of setup, sales, documentation, accounting and taxation.

Research

TOPIC FOCUSED EXTRACTIVE SUMMARIZATION
Undergraduate Honors Thesis (2020)

- → Built a Topic-Focused Extractive Summarization system that can quickly be adapted to new domains from limited data, learning "topics" and meeting users' unique information needs by providing tailored summaries for unseen documents - outperformed several baselines. Trained model by fine-tuning BERT for sentence classification using Hugging Face.
- → Worked as an Undergraduate Research Assistant in UTCS under Dr. Greg Durrett, funded by Walmart Labs. This work was continued by Ojas Ahuja after I graduated and eventually accepted at ACL 2022 (preprint) - I was listed as third author.

Education

THE UNIVERSTITY OF TEXAS AT AUSTIN
MS, Computer Science
Aug 2019 - Oct 2020 | Austin, TX
Dropped Out 🤘

BS, Computer Science
Aug 2016 - Dec 2020 | Austin, TX
Turing Scholar, Business Minor

Coursework

GRADUATE
Algorithms
Natural Language Processing
Database Systems
Cybersecurity Law & Policy
Combinatorics & Graph Theory

UNDERGRADUATE
Concurrency (Honors)
Operating Systems (Honors)
Artificial Intelligence
Neural Networks
Information Retrieval & Search
Competitive Programming

Skills

PROGRAMMING
Proficient:
Go • Python • SQL

Familiar:
Java • C++ • JS • TypeScript

LIBRARIES/FRAMEWORKS
gRPC • Pandas • HuggingFace

Interests

TECHNICAL
Risk & Fraud • Security • ML • Backend Engineering • Math

NON TECHNICAL
Puzzles • Food • Hiking • Swimming