

# Akshay Gupta

akshaykg42.github.io

| akshaykg42[at]gmail

## EXPERIENCE

### PLAID | SOFTWARE ENGINEER

Risk Engineering | Feb 2021 – Current | 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 to facilitate Plaid's transition to being a third-party-sender, and develop new fraud-signal-gathering tools for the risk platform.
- Worked with product and security 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!
- 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.

Intern - Independent Data Access | Summer 2020 | 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, bootstrapped 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

### [ACL 2022] TOPIC FOCUSED EXTRACTIVE SUMMARIZATION

Undergraduate Honors Thesis (2020)

- Built a Topic-Focused Extractive Summarization system ([link](#)) 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 another student after I graduated and eventually accepted at ACL 2022 ([link](#)) - I was listed as third author.

## EDUCATION

### THE UNIVERSITY 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 • Payments • Security • ML • Math

### NON TECHNICAL

Puzzles • Food • Hiking • Swimming