

Ishan Shah

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EDUCATION

The University of Texas at Austin

Aug 2019 – May 2023

B.S., Electrical and Computer Engineering

GPA: 3.95

B.S.A., Mathematics, Minor: Business

- **Selected Coursework:** Machine Learning, Data Science, Computer Vision, Natural Language Processing (**TA**), Operating Systems, Algorithms, Data Structures (**TA**), Stochastic Processes, Probability, Linear Algebra

EXPERIENCE

Google

May 2022 – Present

Software Engineering Intern

San Bruno, CA

- Designed a throttling strategy for YouTube's ML classification queue to optimize uploads for 2m+ videos/second.
- Created a service that updates an ML monitoring dashboard for 800+ YouTube classifiers with 50+ internal users.
- Deployed a cron job on Kubernetes that runs the updater daily, saving on-call engineers 5+ minutes per incident.

Capital One

May 2021 – Aug 2021

Software Engineering Intern

Plano, TX

- Developed an NLP pipeline that uses Google Reviews from 16k+ car dealerships to predict future fraud incidents.
- Trained logistic regression and naive Bayes models on 12m+ TF-IDF vectorized reviews and past fraud incidents.
- Presented 8 technical demos to 100+ engineers and saved internal risk researchers 2 hours/dealer, a 90% speedup.

AAK Telescience

May 2020 – Aug 2020

Software Engineering Intern

Davis, CA

- Wrote Flask web apps to match 100k+ researchers with research opportunities based on keyword similarities.
- Implemented a desktop app to extract and transfer keywords from user documents to the web server using Electron.
- Built dynamic web pages that process and render SQL data on a modern UI using AJAX, Jinja, and Bootstrap.

PROJECTS

Pictionary

Jan 2022 – May 2022

- Trained an RNN with TensorFlow on Google QuickDraw (50m+ sketches) to classify drawings with 40% accuracy.
- Explored modern neural network architectures, image classification algorithms, and efficient data streaming.

Commentary

Jan 2022 – May 2022

- Created a model that predicts the sentiment of a tweet's replies and deployed it with FastAPI and GCP (2k+ uses).
- Built a pipeline that fetched 34k+ tweets from Twitter's API and applied pre-processing and TF-IDF vectorization.

PeerNet

Jan 2020 – Dec 2021

- Developed a community-focused tutoring platform for schools that lets students give and receive class-specific help.
- Created a Google Classroom-like interface for resource sharing and a tutor messaging system powered by Twilio.

ORGANIZATIONS

IEEE UT Austin | Corporate Director

Sep 2019 – May 2022

- Organized workshops with 20+ companies (Optiver, Apple, etc.) to give 200+ members tech industry insights.
- Gave talks on technical interviews and resume writing and maintained a script to automate corporate outreach.

UT Human-AI Interaction Lab | Research Assistant

Aug 2021 – Dec 2021

- Calculated rates of return to homelessness in Austin by age, race, gender, etc. of 4k+ individuals with Pandas.
- Worked with The Salvation Army and ECHO to mitigate homelessness inequity for marginalized groups.

SKILLS AND HONORS

Languages: Python, Java, JavaScript, C, Protocol Buffers, L^AT_EX, SQL, HTML, CSS

Tools: AWS, GCP, Git, Docker, Kubernetes, MongoDB, Firebase, Flask, Node.js, React, Next.js

Machine Learning: Scikit-learn, TensorFlow, NLTK, NumPy, Pandas, Jupyter Notebook

Honors: DaVita PM Hackathon (1/25), Switch Energy Case Competition (4/250), Daily Texan Publications (7x), IEEE Scholarship Recipient (2x), HKN Scholarship Recipient, College Scholar (2x), University Honors (6x), Eagle Scout

Interests: Startups, Linguistics, Coffee Shops, Bouldering, Sand Volleyball, National Parks, Crossword Puzzles