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, Operating Systems, Algorithms, Data Structures (**Teaching Assistant**), Stochastic Processes, Probability, Linear Algebra

EXPERIENCE

Google   May 2022 – Present
Software Engineering Intern   *San Bruno, CA*

- Summer 2022 software engineering intern on the YouTube team.

Capital One   May 2021 – Aug 2021
Software Engineering Intern   *Plano, TX*

- Developed backend and machine learning for Watson, a multilayered web app that makes internal risk analysis of car dealers 20x faster by integrating customer review data for 16k+ dealerships, pulled from the Google Places API.
- Designed regression models to interpret dealer risk for 12m+ reviews with NLP techniques like sentiment analysis.
- Presented 8 technical demos to 100+ internal users including VPs and was immediately approved for production.

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

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.

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.

PeerNet   Jan 2020 – Dec 2021

- Developed a community-focused tutoring platform for schools that lets students give and receive class-specific help.
- Created class pages for students to share resources and implemented a tutor messaging system using Twilio.

ORGANIZATIONS

IEEE UT Austin | *Corporate Director*   Sep 2019 – May 2022

- Coordinated 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, LaTeX, SQL, HTML, CSS
Tools: AWS, Google Cloud Platform, Git, Docker, MongoDB, Firebase, Flask, Node.js, React
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
Certificates: AWS Certified Cloud Practitioner, Natural Language Processing with Microsoft Azure
Interests: Bouldering, Sand Volleyball, Startups, Linguistics, National Parks, Crossword Puzzles, Coffee, Rap