

Utkarsh Nigam

(469) 910-6913

joshnigam99@gmail.com

[Github](#) | [Devpost](#) | [LinkedIn](#) | [Web](#)

M.S. Computer Science (Intelligent Systems), University of Texas at Dallas. **GPA: 3.8/4.0**
B.S. Computer Science, B.S. Mathematics, University of Texas at Austin. **GPA: 3.77 /4.0**

EXPERIENCE

Master's in Computer Science, UT Dallas — AI/Intelligent Systems

JULY 2025 - EST. AUG 2026 GRADUATION

- Current full-time student with graduation expected in August 2026.

Bloomberg, New York City — Software Engineer (Trading Systems)

JULY 2022 - JUNE 2025

- I worked with an infra team that owns a highly-critical, legacy database serving ~400 million requests daily, storing client trades.
- My highest impact project was **migrating a monolith** (in C/Fortran) that served enterprise data (Bloomberg's top products) via FIX/XML APIs to clients, to a new microservice-architecture, leveraging C++20 (concepts & ranges), Java17's Reactive API which reduced tech-debt, redundant I/O, looser coupling, improved maintainability, and most importantly, **improving latency per request by about 10x..**
- Part of a multi-org effort to support new business-critical features such as T+1 settlement migration ([see here](#)) by
 - (i) delivering an internal change in our ticketing system
 - (ii) adding a new RLE-based data-compression layer to fix broken workflow
 - (iii) synchronizing meetings with product, QA, and engineering teams to ship to production under tight deadlines.
- The data-compression **increased network-throughput** by compressing raw database-records being sent over the wire by 17x.
- Made an impact outside of immediate work by cultural involvement in **philanthropy**, interviewing candidates (top 5% interviewer), contributing to our Q&A interview bank, and mentoring new-grads and interns through Bloomberg entry-level mentoring program.

Tangle, Austin — Part-time Developer

MAY 2021 - NOV 2021

- I was in charge of developing the frontend, API, and backend from near scratch, using the MERN stack and SCRUM process. Designed a front-end using RESTful APIs and API routing.
- Developed the frontend using Expo CLI and ReactNative and connected it to the AWS-hosted backend via Python's SQLAlchemy API.

AIVIS.AI, Bay Area — Machine Learning (CV) Intern

JUNE 2021 - AUG 2021

- I was tasked with the project of tracking the popularity of certain goods at certain retail stores, to be solved using computer vision.
- Designed, integrated, and deployed to beta a deep-learning merchandise detector, classifier, and tracker on AWS Cloud, using YOLO v5.

Community Labs, San Antonio — Software Automation Engineer

NOV 2020 - JAN 2021

- Community Labs conducts Covid-19 testing mainly in San Antonio and receives thousands of customer queries during peak hours.
- Built tools and 2 microservices to assist the customer support team using Google's AppScript, Python, and OAuth frameworks within NodeJS.
- Automated tools reduced customer service workload by ~70%

SKILL OVERVIEW

- **Languages:** Java, Python3, C++, C, Groovy, Bash4.0, TypeScript

- **Backend Software:** Apache Kafka, RabbitMQ, Some Camel

- **Tooling:** Git, DPKG (RHEL), CMake, SubVersion, Humio, Splunk, gdb, CLion, IntelliJ, Apache Maven

- **Frameworks:** GTest, GMock, Spring, SpringBoot, Junit, PyTest, Jakarta

- **Misc:** Writing GitHub Wiki Docs, markdown enthusiast, active listener

NOTABLE PROJECTS

HackTX: Speech-based classifier

OCT 2021

Wrote a neural network to classify emotion from speech deployed on the cloud with an Electron frontend, using RESTful APIs with a team of 5 - all within 24 hours. [Check my work here!](#) ([Repositories](#))

UT ML & Data Science Project

APRIL 2021

Rigorously analyzed & presented a case study on "Spotify's next marketing step" by analyzing listener data upto 2019, using ScikitLearn and Pandas.

LXD Open Source Contribution

DECEMBER 2021

Resolved issues ([like this one](#)) on the Linux Containers (LXD) open-source project, part of my Virtualization course.

MISCELLANEOUS

Relevant coursework

- Data Structures, Networks, OS, Architecture, Virtualization, Distributed Computing, NLP, Neural Networks
- CppCon 2023 attendee, Concurrency in Java taught by [Dr. S \(Java Champion\)](#)

Key Distinctions

- 81st Putnam Contest: Finished in the top 33%
- University-Endowed Presidential Scholar Award at UT Austin

Hindi Native fluency
French Conversational fluency