Tej Gumaste

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Education

University of Kansas Lawrence, KS
Bachelor of Science in Computer Science and Minor in Mathematics - GPA 3.85 *Expected graduation May 2026*

Awards
SELF fellow, University Scholar (Top 5%), IEA Full Scholarship Recipient (Top 2%), Babcock Math Scholarship (Top 5%)

Technical Skills

Languages: Java, Python, C#, C++, C, MatLab, Solidity, Javascript, Typescript, Scala
Technologies: Git, VS Code, Visual Studio, Android Studio, PyCharm, Docker, Unity, Postgresql, Playwright
Frameworks: React, NextJS, Svelte, Agile, ExpressJS
Machine Learning: Logistic Regression, Feature Selection (RFE), TF-IDF, Model Evaluation
Data Processing: NumPy, Pandas, Matplotlib, Sklearn

Experience

Software Engineering Intern - Funding & Payments Jun. 2025 - Aug. 2025
Gemini Exchange *New York City, NY*
- Engineered 5+ smoke tests using Playwright for web and mobile platforms that reduced deployment lifecycle by 15%
- Co-developed the backend integration of CrossRiver Bank wire payment rails, implementing transaction handling logic, and validation flows—supporting an expected $4M in additional annual revenue

Research Engineer - View Project Feb. 2024 – Present
Blakemore Lab - KU *Lawrence, KS*
- Developed data engineering pipelines to efficiently process and visualize atomic properties of **1500+** structures
- Detected the presence and effects of metals within the crystallographic files through large scale data analysis
- Automated the analysis workflow for crystallographic structures, reducing the time from **6 months to 5 minutes**

Software Engineering Intern Jun. 2023 – Dec. 2023
Security Benefit *Topeka, KS*
- Automated Sailpoint access management by building custom APIs, resulting in a time savings of ***100 hours per year***
- Developed and maintained ETL processes using Python and **AWS (S3)** to support internal and consumer applications

Projects

EirAI - HackKU25 Theme Track 2nd Place - View Project | *NextJS, PostgreSQL, OpenAI, Gemini* Apr. 2025
- Co-developed EirAI, a tool that transcribes patient-doctor conversations into SOAP notes, reducing administrative bloat
- Implemented semantic extraction and indexing for **73,000 codes** ICD-10 code, matched to treatments using a **1.5M+ row** simulated dataset
- Engineered **approval prediction module** using historical provider data to estimate insurance claim success rates

DAIM - AI Track Winner - View Project | *NextJS, Tailwind CSS, Pinata IPFS, Metamask, Autonomys Auto Drive* Mar. 2025
- Won the Autonomys AI Challenge at Midwest-Blockathon for DAIM, a decentralized AI model and dataset marketplace
- Developed a full-stack Web3 platform enabling secure, open-source sharing of AI models using blockchain and IPFS.
- Integrated generative AI tools for code summarization and model context to enhance user experience and discovery.

Optimized RFE Feature Selection with LogRes - View Project | *Python, NumPy, StandardScaler* Feb. 2025
- Developed a custom **Logistic Regression** model using NumPy for binary classification on heart attack risk data
- Processed and analyzed a **230K-row dataset**, optimizing computational efficiency for large-scale data
- Implemented Recursive Feature Elimination (RFE) from scratch, reducing features from **35 to 7**, improving interpretability for **clinical decision-making** while maintaining a **94% accuracy**

MathVenture - View Project | *NextJS, Supabase, Tailwind CSS, PostgreSQL* Feb. 2025
- Developed a speed math platform that dynamically generates math problems and analytics using a **custom math engine**
- Designed a **RESTful API** using **Next.js** app router to handle attempt initialization and question retrieval
- Achieved **30+ user** sign-ups within the first week of beta launch, demonstrating strong early adoption and user interest

Leadership

VP Engineering and Education Aug. 2023 – Apr. 2024
KU Blockchain Institute (KUBI) *Lawrence, KS*
- Spearheaded bi-weekly blockchain (Ethereum) and web development (React, NextJS, Express) workshops for groups of **15+** students, utilizing hands-on projects and real-world examples to enhance learning outcomes
- Engineered smart contracts for KUBI's Decentralized Autonomous Organization that logged over **500 hours** of club participation