

# Tej Gumaste

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## EDUCATION

### University of Kansas

BS, MS in Computer Science- GPA 3.85

Lawrence, KS

Expected graduation May 2027

### 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
- Streamlined Gemini's tax reconciliation by enhancing services to merge **10,000+ daily crypto rates**, achieving **100% coverage**, eliminating **4+** annual tax reprocesses and all manual hot fixes

### 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