Tejas Raman

tejassraman@gmail.com | linkedin.com/in/tejas-raman-1a892b255/ | github.com/traman2

Education

University of Texas at Dallas **May 2027**

Bachelor of Science in Computer Science

GPA: 3.73

Technical Skills

Languages: Rust, Python, Java, C++, C#, C, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, Eclipse, Google Cloud Console, Android Studio
Technologies/Frameworks: Linux, React/React Native, Figma, Tensorflow, PyTorch, AWS

Experience

Closet Sensei **August 2025 – Present**

AI Mentorship Project Lead

- Led the recruitment process for the Closet Sensei project by reviewing 200+ applications and interviewing candidates, ultimately selecting 5 mentees for the AI mentorship program.
- Guide mentees in full-stack development and machine learning by teaching React Native for the mobile app implementation and supervising the creation of a CNN with ResNet to classify clothing items and the virtual closet.
- Configured a CI/CD pipeline using GitHub Workflows, enabling automated deployments for both frontend and backend applications; reduced deployment time by 40%, leading to quicker feature rollouts and improved team responsiveness.

ElevAIte **May 2025 – Present**

Founder and Lead Developer

- Launched a fintech web service with 50+ test users for creating financial budgets, transactions, and internship milestones using typed queries, automatically processing requests and redirecting users to the created event using Socket.IO.
- Orchestrated a LangGraph pipeline to route user requests to different handlers, integrating Pinecone vectors that makes the LLM context-aware of user financial data and achieving an impressive 94% testing accuracy in event creation.
- Optimized platform scalability by implementing React Query for efficient client-side caching and configuring NGINX load balancing on AWS EC2, reducing server API calls by 19% on average under heavy traffic.

AI Innovation Lab **January 2025 – Present**

Undergraduate Researcher

- Implemented a DistilBERT model to categorize over 2000 user requests into seven distinct intents, resulting in a 91% classification accuracy for routing requests to their corresponding controllers.
- Developed a Python-based machine learning model to pair over 400 simulated users by developing a K-Means clustering algorithm, evaluated cluster quality with a silhouette score of 0.81, indicating strong correlation of preference clusters.

Projects

BlackBoard Scrubber | *JavaScript, React, Express, Google Calendar API* **June 2025**

- Designed a Chrome extension that automatically detects new assignments from the elearning portal, sends real-time push notifications, and sync them to my calendar.
- Built service workers, background scripts, and DOM selectors to accurately capture assignments by class with 98% accuracy and an average runtime of 2ms.

Foodalyze | *BeautifulSoup, Flask, Python, React, Pinecone, RAG, TanStack Query* **February 2025**

- Engineered a BeautifulSoup based web scraper to collect and vectorize 50+ nutrition and fitness articles based on user preferences, enabling a RAG-powered AI model to generate personalized, proven meal plans for muscle gains.
- Developed a React app integrating Pinecone vectors and TanStack Query to store user data locally with persistent caching, reducing repeated API calls and efficiently delivering personalized meal recommendations.

MediMap | *XGBoost, React, Flask, Python, Google Map API* **November 2024**

- Constructed an XGBoost regression model on 30K Medicare records from the Center for Medicare Services (CMS) achieving a mean square error of 0.93 to predict per-capita healthcare costs from demographic features.
- Built a Flask API to process heatmap size requests from the React client, returning spaced JSON datapoints for Google Maps API visualizations and reducing server response times to average around 12 ms.