

Tejas Raman

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EDUCATION

University of Texas at Dallas

Dallas, TX

Bachelor of Science in Computer Science

May 2027

Honors and Scholarship(s): Academic Excellence Scholar

Relevant Coursework: Computer Science 2, Discrete Mathematics for Computing, Data Structures and Algorithms, Linear Algebra, UNIX Programming

ORGANIZATIONS

Artificial Intelligence Society

January 2025 - May 2025

The University of Texas at Dallas

Richardson, TX

- Worked with a Team of 5 developers to make a web app that students can use to easily access class details from the UT Dallas Syllabus and learn topics using AI Study Tools built using a RAG AI Model
- Presented to a panel of 5 industry judges in the AI/ML industry to showcase our project and get insight from industry professionals on how to improve our projec
- Team Won 2nd place at AI Mentorship (AIM) night for innovative use of AI to enhance student productivity through our gameify features that use reinforcement learning

PROJECTS

Schedgy | *React, Node.js, RAG, Gemini LLM, Pinecone DB, Express, MongoDB, JWT, Figma*

March 2025

- Built a full-stack productivity app to help college students manage tasks, finances, and academic responsibilities through a conversational AI assistant powered by a RAG (Retrieval-Augmented Generation) pipeline
- Integrated JWT-based user authentication and developed secure RESTful APIs using Express and MongoDB for handling class schedules, tasks, transactions, and user accounts
- Leveraged Pinecone Vector Database and cosine similarity search to retrieve the most relevant user data chunks with up to 90% precision, allowing Gemini LLM to generate accurate natural language responses

TaskMasterAI | *Python, Flask, React, MongoDB, Express, Gemini LLM, RAG*

January 2025 – Present

- Developed a REST API using Flask and Express.js to allow our backend server running on Python and Node.js to communicate with frontend
- Implemented a RAG AI Pipeline using the Gemini LLM to use context of the UT Dallas syllabus to help decrease latency of queries down to 5ms so students can get a more seamless experience in creating study plans and flashcards
- Used JSON Web Tokens (JwT) to create a secure way of handling OAuth and login management of TaskMasterAI

Web Portfolio | *React, MongoDB, Express, Node, Vercel, Figma, TailwindCSS*

May 2025

- Built and deployed a full-stack personal website using React and TailwindCSS with a backend for contact form handling; optimized performance to achieve a 98% First Contentful Paint and 94% Lighthouse score
- Built and styled multi page layout with React Router, enabling direct navigation to /Project and /Contact routes across desktop and mobile devices.
- Integrated Express and Nodemailer into a Vercel Serverless Function to process contact form submissions with response latency under 1ms
- Improved SEO performance to a 100% Lighthouse score; connected Google Search Console and submitted a custom sitemap for indexing

TECHNICAL SKILLS

Programming Languages: Java, Python, C++, C#, MongoDB, JavaScript, HTML/CSS

Frameworks: React/ReactNative, Node.js, Flask, Express.js, TensorFlow, TailwindCSS

Tools: Github, VS Code, Visual Studio, IntelliJ, Eclipse, PyCharm, C-Lion, Figma

Libraries: Pandas, NumPy, Matplotlib

ADDITIONAL INFORMATION

Languages: English and Tamil

Eligibility: US Citizen, Eligible to work in the US for internships and full time with no restrictions