Daniel Thomas Jesudoss

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Technically proficient software engineer with interest in high-performance computing. Skilled in building robust applications using React, Flask, Next.js, and CUDA, with a passion for continuous learning.

Education

Master of Science, Computer Science　　　　　　　　　　　　　　　　May 2026 (expected)
The University of Texas at Arlington, Arlington, TX
Relevant Coursework: Design and Analysis of Algorithms, Software Engineering, GPU Programming

Bachelor of Technology, Information Technology　　　　　　　　　　　Jul 2020 – Apr 2024
Loyola-ICAM College of Engineering and Technology, Chennai, India
Relevant Coursework: Big Data Analytics, Object-Oriented Design, Computer Graphics, Network Engineering

Experience

Frontend Development Intern　　　　　　　　　　　　　　　　　　　Sep 2022 – Nov 2022
IBM　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Remote*
- Collaboratively developed a responsive web application using Gatsby, React.js, and TypeScript, ensuring compatibility across various devices and screen sizes.
- Optimized performance by leveraging incremental builds, reducing page load times by 50%.

Assistant Vice President of Engineering　　　　　　　　　　　　　　Dec 2021 – Sep 2022
Pattarai, Student-Led Engineering Organization　　　　　　　　　　　*Chennai, India*
- Led and participated in various projects deployed on campus, such as building a smart water management system, a voice-controlled robot, and a web portal.
- Mentored and trained 15 students in various aspects of web development, such as React, JavaScript, Node.js and MongoDB.

Projects

Furever Home | *Next.js, Firebase, MongoDB, TF-IDF Vectorization + Cosine Similarity*　　　Oct 2024
- Designed and developed Furever Home, a swipe-style pet-adoption platform that matches users with ideal pets through an intuitive, Tinder-like interface.
- Crafted a sub-200 ms recommendation engine using TF-IDF vectors and cosine similarity on MongoDB data to deliver highly personalized pet suggestions.

JobJive | *Next.js (React/TS), TailwindCSS, Prisma ORM, Azure Speech SDK, OpenAI API*　　　Aug 2023
- Built JobJive, an AI-driven mock-interview platform that delivers real-time speech transcription and lifelike voice interactions.
- Deployed adaptive conversational AI to generate dynamic interview questions and instant, personalized feedback, markedly boosting users' confidence and readiness.

GLearner - Smart LMS | *Next.js, Prisma+Supabase, FlaskAPI, Selenium scraping, NLP(KeyBERT)*　Mar 2023
- Engineered GLearner, a smart learning portal that continuously gathers YouTube educational videos and ranks them against user-entered topics to streamline self-study.
- Implemented a real-time NLP pipeline that distills 5-min transcripts in under 400 ms and feeds a feed-forward ANN (artificial neural network), instantly mapping user queries to the highest-relevance videos.

Technical Skills

Languages: Python, Java, C/C++, SQL (Postgres), JavaScript/TypeScript, HTML/CSS, Go
Frameworks: CUDA, React.js, Node.js, Next.js, Express.js, Flask, Spring Boot, GraphQL, TailwindCSS, Framer Motion, Axios, Prisma ORM
Tools: Git, Docker, GCP, VS Code, Bash, npm/Yarn/pnpm, Postman, Selenium, Microsoft Office
Libraries: TensorFlow, NumPy, NLTK, KeyBERT

Certifications

- Google IT Automation with Python, Coursera — Specialization
- Architecting with Google Compute Engine, Coursera — Specialization
- Foundations of Project Management, Coursera — Certificate