Nivedh Koya

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EDUCATION

Masters of Science in Computer Science   **August 2025 – May 2026**
University of Texas at Dallas | Fast Track Program | Intelligent Systems Track   Richardson, TX

Bachelor of Science in Computer Science   **August 2022 – May 2025**
University of Texas at Dallas   Richardson, TX

SKILLS

Coding: Python, C/C++, Java, Scala, C#, JavaScript, Typescript, HTML, SQL, TensorFlow, ReactJS, React Native, AngularJS
Other Technical Skills: ML, MangoDB, Postman, Git, AWS, Azure, Node.js, ASP.NET, Flask, PyTorch, Docker, Kubernetes
Significant Courses: Adv. Algorithms & design, Big Data Mgmt., DB Design, OS Concepts, Software Engineering, Artificial Intelligence, Machine Learning, Natural Language Processing, Statistical Methods in Data Science

EXPERIENCE

Paycom | React, C#, PHP, SQL, Docker, RabbitMQ   **May 2025 – Aug 2025**
Software Development Intern   Irving, TX
- Refactored synchronous freeze workflow into an asynchronous, message-driven system using RabbitMQ
- Containerized the API controller and all freeze workers using Docker for modular deployment and scalability
- Implemented background processing with status tracking to enable real-time client updates for long-running tasks

Constellation Software Inc. | AngularJS, .NET, Microsoft Azure, SQL   **Sept 2023 – May 2025**
Software Development Intern   Plano, TX
- Used C# and Typescript to build a user-centric UI for excel uploads, and error-embedded downloadable files, reducing user errors by 40%
- Optimized solution functionalities through intricate API and endpoint enhancements, resulting in a 20% increase in system performance
- Leveraged Microsoft Azure and Azure DevOps to manage deployment pipelines, monitor services, and streamline workflows

Kellerman Foundation | MySQL, ReactJS, Node.js, Apache, HTML, CSS   **Aug 2023 – Jan 2024**
Project Manager & Lead developer   Richardson, TX
- Worked on and managed creating software solutions to solve real-world problems with significant impact on the Uganda community
- Collaborated closely with a partner to align software objectives with business needs and improved team productivity by over 50%
- Streamlined data management and added functionality for managing grants in the system, improving operational efficiency by over 40%

Black Knight Financial Services | AngularJS, .NET, Azure DevOps, SQL   **May 2023 – Sept 2023**
Software Development Intern   Jacksonville, FL
- Architected API's using C# and created endpoints that enhanced security and prevented unauthorized access from previous employees
- Leveraged SQL expertise to perform intricate database operations, elevating the overall efficiency and performance of the solution
- Created and fixed unit tests as well as regression tests, improving code coverage by over 30% for the solutions

SOFTWARE PROJECTS

Climate Predictor AI | **May 2025**
- Built and trained a linear regression model using normalized historical climate data to forecast long-term changes in key weather metrics.
- Designed a visually engaging interface with dynamic map integration to make complex climate data easily understandable for audiences.

RAG Based Study Tool | **April 2025**
- Built an ML-based quiz generator using RAG and LLMs to create context-aware questions from PDF study material.
- Developed a Dockerized pipeline for vector embedding, semantic retrieval, and quiz content generation.
- Implemented adaptive feedback to score answers, identify weak areas, and regenerate targeted quizzes.

ML Model for Underwater Image Improvement | **May 2023**
- Developed a semi-supervised learning model with TensorFlow by creating custom loss functions with Linear Algebra techniques
- Used CycleGan to address challenges within underwater imaging and attained an 95% accuracy rate in improving underwater image colors
- Engineered robust image preprocessing techniques that significantly improved data quality that improved efficiency by over 50%

Mood Away | **December 2022**
- Led a team to develop an innovative online journal platform in React Native, utilizing Sentimental API and Firebase for the backend
- Implemented a web API to deliver personalized articles and mood-enhancement suggestions to users based on their journal entries

AWARDS

- 2x National Qualifier | 4x State Qualifier | Business Professionals of America | Website Design Team | Advanced Office Systems & Procedures
- National Merit Commended Scholar | National Merit Scholarship Program