Anirudh Kashyap Ramesh
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Objective
Internship opportunities for a Software Engineering role starting in Summer 2025.

Experience
Full Stack Software Developer Intern **Avanseus, Bengaluru** **Feb 2024 – Jul 2024**

- Developed and maintained full-stack applications using React, Spring Boot, and MongoDB.
- Contributed to both frontend and backend components, including CRUD operations, form handling, and server-side pagination.
- Enhanced system functionality and user experience by effectively utilizing Axios for HTTP requests.

Education
Masters- Computer Science **University of Texas at Arlington** **Aug 2024 - Present**
CGPA 4.0/4.0

Data Analysis and Modelling techniques	Design And Analysis of Algorithms	Artificial Intelligence
Machine Learning	Data Mining	Database Systems

Bachelor of Engineering- Information Science **JSS Academy of Technical Education, Bengaluru** **Aug 2019 – May 2023**
CGPA 9.0/10.0

Big Data Analytics	Database management	Machine Learning
Operating Systems	Object-Oriented Concepts	Software Engineering

Technical Skills
- **Programming Language:** Python, JavaScript, C
- **Platform and Tools** : MongoDB, MySQL, GitHub, Git, Docker, MS Excel , Visual Studio Code
- **Operating Systems** : Windows, Mac OS, Linux
- **Technologies** : HTML, CSS, React, Node.js, AWS
- **Machine Learning** : TensorFlow, Keras, NumPy, Pandas, Matplotlib, Scikit-learn, NLP Reinforcement Learning

Academic Projects
Pneumonia Detection Using CNN **March 2023**

- Developed a CNN-based machine learning model that achieved a 92% accuracy in detecting pneumonia from X-ray images, improving diagnostic speed by 30% compared to traditional methods.
- Optimized training on a dataset of 5,000 images using TensorFlow, Keras, and Tflearn, reducing training time by 15%.
- A frontend is created for uploading X-ray images using flask.

Cost-Optimized Expense 8-Puzzle Solver **November 2024**

- Developed a cost-optimized solver for the Expense 8 Puzzle Problem using BFS, UCS, DFS, DLS, IDS, Greedy, and A* search algorithms with an admissible heuristic.
- Implemented movement cost tracking for each tile, ensuring minimal-cost solution paths.
- Enabled detailed search trace dumping for performance analysis and debugging.
- Created a command-line tool with flexible input options for efficient execution and testing

LLM-Powered Cold Email Generator for Job Applications **February 2025**

- Developed an AI-driven job application assistant using LangChain, LLMs (Llama-3.3-70b), and Prompt Engineering to generate personalized cold emails for job applications.
- Implemented a Retrieval-Augmented Generation (RAG) pipeline with ChromaDB, a vector database to match applicant skills with job descriptions, improving relevance in automated email content.
- Automated the job application workflow by integrating LLMs, web scraping, and structured data extraction, enabling seamless job posting retrieval and personalized email drafting.