KANDI VISHNU VARDHAN REDDY

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Github:https://github.com/Vishnu0196

EDUCATION

• University of Massachusetts Amherst

MS in Computer Science | Key Courses - Systems Design, Neural Networks, RL

Indian Institute Of Technology, Kharagpur
 B.tech, M.tech in Computer Science and Engineering

GPA: 4/4 July 2018- July 2023

CGPA: 8/10

Sep 2024- Present

TECHNICAL SKILLS

Programming Languages: C | C++ | C# | Python | JavaScript | HTML | React | Java | Go | PHP | Ruby | TypeScript

Tools, Technologies, Environments and Libraries: Android and Web Development | Git | gRPC | Shell | REST API | Amazon S3 | SQL |

Vivado | Wireshark | Bootstrap | DataDog | Azure DevOps | SSMS | Node.js | MATLAB | OpenCV | Git | PyTorch | TensorFlow

INDUSTRY EXPERIENCE

Optym India Private Limited | Software Engineer - Backend and Systems

Jul'23 - Aug'24

Technologies: JavaScript, TypeScript, c#, DataDog, Azure DevOps, SSMS, Node.js

- Engineered and maintained high-performance **backend systems** for logistics, enhancing **decision-making processes** for trucking and driving efficiency gains.
- Designed and implemented scalable algorithms and RESTful APIs to tackle complex logistics challenges, boosting operational efficiency
 and significantly increasing Optym's system reliability.
- Partnered with cross-functional teams to integrate **cloud-based infrastructure** and **data pipelines**, delivering scalable **backend solutions** that adapted to business growth and met evolving logistics demands.

Cohesity India Private Limited | Software Engineer Intern

May'22 - Jul'22

Technologies: Python, GO, gRPC, Amazon S3

- Engineered a gRPC streaming solution for efficient large-scale data transfers across client clusters, enhancing the existing ETL processes.
 Performed a comparative analysis of server memory usage and data transmission times to evaluate the efficacy of the implemented streaming methods.
- Researched and developed data segmentation strategies, utilizing storage solutions like S3 to reduce gRPC stream loading times and improve throughput.

RESEARCH EXPERIENCE

Enhancing Biomedical Article Summarization | IIT Kharagpur

Aug'22 - Dec'22

- Conducted in-depth research on advanced NLP techniques, with a focus on automating the summarization of biomedical articles.
- Integrated **BioBERT** with **TextRank** for salient feature extraction and employed **Pegasus-PubMed** for summarization to automate the generation of succinct biomedical research abstracts.

Privacy Breach in Deep Learning through Computer Architecture | IIT Kharagpur

Feb'20 - Nov'21

- Conducted research on information leakage vulnerabilities in **deep learning systems**, identifying **architectural footprints** and inadvertent memorization of data sequences during model training as key risks.
- Explored and demonstrated **side-channel attacks**, with a focus on **cache**-based leakage, revealing how adversaries could exploit deep learning models to access sensitive information.

KEY PROJECTS

Spotify Playlist Recommendation System | UMASS Amherst

Aug'24 - Dec'24

- Converted the million-playlist dataset and leveraged PySpark for data cleaning/EDA.
- Applied ALS-based collaborative filtering with tuned parameters to produce top-100 music suggestions.
- Developed an API to facilitate seamless integration and real-time music recommendations.

Lunch Planner App | Software Engineering Lab

Jan'20 - May'20

• Designed an Android application that utilizes the ZOMATO API and the Google Play Services location API to provide customised restaurant recommendations based on the user's location proximity and user-selected criteria (such as distance, type of cuisine, category, rating).

Grocery Door app | Database Management System Lab

Jan'21 - May'21

Engineered an E-commerce Android application using Java and a web counterpart using PHP, focused on real-time database integration
for efficient delivery of grocery items, home essentials, and food supplies, enhancing client convenience and operational efficiency.

Campus Connect App | Full Stack Development Project

Jan'23 - May'2

- Built an Android and Web application to streamline campus event management, providing efficient notifications for students.
- Leveraged Java, React, Node.js, and Firebase for seamless cross-platform communication and real-time data synchronization.

TEACHING EXPERIENCE

Teaching Assistant | Indian Institute of Technology, Kharagpur

Autumn'22- Spring'23

• Conducted **office hours** and provided assistance during lab sessions, along with organizing and evaluating assignments for the **Compilers** Laboratory and **Programming and Data Structures** Laboratory courses.