ASHIK M P

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PROFESSIONAL EXPERIENCE

SHELL INDIA PVT LTD   **Bangalore, IN**
Software Engineer   **Aug 2022 - Sep 2023**

- Designed and developed backend systems to automate incident management processes, significantly improving response times and reducing manual intervention.
- I Led the integration of Python-based automation scripts with enterprise tools such as Power Apps and Power Automate, resulting in a 35% reduction in Mean-Time-To-Respond (MTTR) for critical incidents.
- Built and deployed scalable Python and Visual Basic scripts to automate backlog clearance in the Incident Management System, decreasing processing time by 75% and improving system reliability.

SOFTWARE AG   **Bangalore, IN**
Machine Learning Engineering Intern   **Feb 2022 - July 2022**

- Designed and implemented Enterprise Knowledge Graphs to efficiently handle customer queries, reducing computation overhead by 30-50%.
- Developed custom language parsers with Python and spaCy for accurate Parts-Of-Speech tagging.
- Implemented Knowledge Graphs using Neo4j and ArangoDB to store and infer new queries.

PANASONIC INDIA PVT LTD   **Bangalore, IN**
Data Science Intern   **Feb 2021 - April 2021**

- Leveraged AC (Air Conditioning) data stored on the cloud to develop novel insights on AC users.
- Performed data preprocessing, analysis, and visualization to understand AC cooling efficiency, reducing raw data by 45%.
- Utilized data visualization techniques to communicate findings and trends related to AC performance.

EDUCATION

UNIVERSITY OF CALIFORNIA, RIVERSIDE   **Riverside, CA, USA**
Master's Degree, Major in Computer Science (Pursuing)   **2023 - 2025**

RAMAIAH INSTITUTE OF TECHNOLOGY   **Bangalore, IN**
Bachelor of Engineering, Major in Computer Science (3.6 GPA)   **2018 - 2022**

PROJECTS

YASMP -   Yet Another Social Media App is a full-stack web app built with Next.js and Firebase (Firestore, Storage, Auth). Developed REST APIs using Golang, deployed on Google App Engine. Features include user connections, post sharing, and media uploads, with a focus on scalability and efficient resource management. <u>Click here</u>

WhisperWave - A real-time chat app built with Golang, using its concurrency model for private messaging, group chats, and real-time push notifications via WebSockets. It leverages AWS DynamoDB and RabbitMQ for efficient storage, queueing, and communication between users and servers. <u>Click here</u>

Neural Network Implementation from Scratch - Designed and Implemented Neural Networks from scratch using Python and NumPy, bypassing pre-built machine learning or deep learning libraries. <u>Click here</u>

Anime Search Index - Built a searchable anime and manga database, scraping over 100,000 entries from public APIs while adhering to API guidelines. Developed a robust fuzzy search index using MongoDB for efficient querying. <u>Click here</u>

ADDITIONAL INFORMATION

Technical Skills:

- **Languages** - C, C++, Java, Python, Golang, JavaScript, SQL, HTML, CSS.
- **Tools, Framework, and Libraries** - ReactJs, NextJs, NodeJs, MongoDB, Docker, Kubernetes, Amazon Web Services, Google Cloud Platform, Scikit-Learn, Pandas, Matplotlib, GitHub.

Certifications:

- <u>Docker Foundations Professional Certificate</u> (LinkedIn and Docker)
- <u>Sequence Models</u> (Coursera)
- <u>Neural Networks and Deep Learning</u> (Coursera)
- <u>NDG Linux Essentials (Cisco)</u>