

# ASHIK M P

## Full Stack Developer

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### PROFESSIONAL EXPERIENCE

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#### SHELL INDIA PVT LTD

##### Software Engineer

Bangalore, IN

Aug 2022 - Sep 2023

- Designed and developed web applications to automate incident management processes, significantly improving incident handling and reducing manual intervention.
- Developed Python-based automation scripts integrated with enterprise tools like 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 enhancing system reliability.
- Designed the database schema to manage internal teams and users, integrating multiple data sources to execute SQL queries, and displaying relevant data for improved operational insights.
- Created and maintained frontend web pages using Vanilla JavaScript, HTML, CSS, and Power Apps to design user-friendly interfaces aligning with operational requirements, enhancing the accessibility and usability of internal tools.

#### SOFTWARE AG

##### Machine Learning Engineer

Bangalore, IN

Feb 2022 - July 2022

- Designed and implemented Enterprise Knowledge Graphs to efficiently handle customer queries, reducing computation overhead by 30-50% and improving response times.
- Developed custom language parsers using Python and spaCy for accurate parts-of-speech tagging, enhancing NLP processing accuracy for customer queries.
- Implemented and optimized Knowledge Graphs using Neo4j and ArangoDB to store and infer new queries, supporting a scalable query architecture.
- Collaborated with the testing team to develop and run CI/CD test suites for functionality and performance testing, utilizing JMeter, GitHub Actions, and other test tools to ensure robust model deployment and system reliability.

#### PANASONIC INDIA PVT LTD

##### Data Scientist

Bangalore, IN

Feb 2021 - April 2021

- Leveraged cloud-stored air conditioning (AC) data to generate novel insights into user behavior and AC usage patterns, optimizing data analysis for actionable outcomes.
- Performed comprehensive data preprocessing, statistical analysis, and visualization to assess cooling efficiency, reducing data volume by 45% while retaining critical information.
- Utilized advanced data visualization techniques to effectively communicate findings, revealing trends in AC performance and efficiency that informed data-driven improvements in product design and user engagement strategies.

### EDUCATION

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#### UNIVERSITY OF CALIFORNIA, RIVERSIDE

Master's Degree, Major in Computer Science (3.7 GPA)

Riverside, CA, USA

2023 - 2025

#### RAMAIAH INSTITUTE OF TECHNOLOGY

Bachelor of Engineering, Major in Computer Science (3.6 GPA)

Bangalore, IN

2018 - 2022

### PROJECTS

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**YASMP** - Yet Another Social Media App is a full-stack web application built with Next.js and Firebase (Firestore, Storage, Auth). I developed backend REST APIs using Golang, deployed on Google App Engine. The app features user authentication, real-time notifications, and search functionality for connecting with other users, enhancing the social experience by allowing users to engage seamlessly. [Click here](#)

**WhisperWave** - A real-time chat application written in Golang, making use of its concurrency model. The application supports private messaging between two users, group chats, and real-time push notifications using secure web-socket communication. It uses technologies like AWS DynamoDB and RabbitMQ to store, queue, and enable user-user and user-server communication. [Click here](#)

**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. [Click here](#)

**Anime Search Index** - Built a searchable anime and manga database by scraping over 100K entries from public APIs and developing a fuzzy search index with MongoDB Atlas for efficient querying. Additionally, I implemented GitHub Workflows to automatically fetch and update new anime entries in the database. [Click here](#)

### ADDITIONAL INFORMATION

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#### Technical Skills:

- **Languages** - C, C++, Java, Python, Golang, JavaScript, TypeScript, SQL, HTML, CSS.
- **Tools, Framework, and Libraries** - ReactJs, NextJs, NodeJs, Spring Boot, MongoDB, Docker, Kubernetes, Amazon Web Services, Google Cloud Platform, Firebase, Scikit-Learn, Pandas, Matplotlib, Git & GitHub, Co-pilot, OpenAI API suite.