

Ashik Mysore Padmanabha

Full Stack Software Engineer

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PROFESSIONAL EXPERIENCE

SHELL INDIA PVT LTD

Bangalore, IN

Software Engineer

Aug 2022 - Sep 2023

- Developed web applications to streamline incident management, reducing manual intervention and improving efficiency.
- Created Python-based automation integrated with enterprise tools, cutting MTTR by 35% for critical incidents.
- 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 accessibility.

SOFTWARE AG

Bangalore, IN

Machine Learning Engineer Intern

Feb 2022 - July 2022

- Designed Enterprise Knowledge Graphs to handle customer queries efficiently, reducing computational overhead by 30-50% and improving response times.
- Coded 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

Bangalore, IN

Data Science Intern

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.
- Conducted data preprocessing & visualization, reducing data volume by 45% while preserving key insights.
- Generated visual reports highlighting trends, aiding data-driven improvements in product design.

EDUCATION

UNIVERSITY OF CALIFORNIA, RIVERSIDE

Riverside, CA, USA

Master's Degree, Major in Computer Science (3.8 GPA)

2023 - 2025

RAMAIAH INSTITUTE OF TECHNOLOGY

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

Bangalore, IN

2018 - 2022

PROJECTS

Yet Another Social Media App (GCP, Golang, Firebase, NextJS) | [GitHub](#) | [Website](#)

- Built a full-stack social media app using Next.js & Firebase, featuring auth, real-time notifications, and search.
- Developed Golang-based REST APIs, enabled to handle 100+ requests per second, and deployed on Google App Engine for seamless scalability.

WhisperWave (Golang, AWS, RabbitMQ, WebSockets) | [GitHub](#)

- Created a real-time chat app leveraging Golang concurrency for private/group messaging & WebSockets.
- Integrated AWS DynamoDB for message persistence and RabbitMQ for message brokering, achieving message delivery latency <1 ms and ensuring high throughput under concurrent user loads.

PolyGrid (gRPC, Protobuf, Golang, NodeJS, Python) | [GitHub](#)

- Implemented a microservices-based PoC using Kafka & gRPC for efficient inter-service communication.
- Delivered 3 primary services: producer, consumer, and analytics services to process and analyze real-time data.

Anime Search Index (Python, Golang, NextJS, GraphQL) | [GitHub](#) | [Website](#)

- Built a search index for anime/manga database using MongoDB Atlas with 100K+ entries, enabling fuzzy search.
- Automated updates using GitHub Workflows, ensuring real-time data refresh.

TECHNICAL SKILLS

- **Languages:** C, C++, Java, Python, Golang, JavaScript, TypeScript, SQL, HTML, CSS.
- **Tools, Frameworks, and Libraries:** ReactJS, NextJS, NodeJS, Spring Boot, Django, Bootstrap, TailwindCSS, MongoDB, Docker, Kubernetes, Amazon Web Services, Google Cloud Platform, Firebase, Scikit-Learn, Pandas, Matplotlib, Git & GitHub, Co-pilot, OpenAI API suite.