Ashik Mysore Padmanabha

Full Stack Software Engineer

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PROFESSIONAL EXPERIENCE

WINWINLABS   **Remote, USA**
Full-stack Developer   **Jan 2025 - Present**
- Built a scalable **IoT platform** using **ESP32 sensors**, **WebSocket**, and **GCP** for real-time monitoring of devices, improving data visualization speed by 40%.
- Developed an **Angular frontend** leveraging **SSR**, **RxJS observables**, and **reactive signals** to deliver performant, real-time dashboards with multi-timeframe trend analysis.
- Optimized **Firestore database** with sensor log subcollections, reducing data retrieval latency by 30%.
- Collaborated with cross-functional teams to integrate hardware data streams, enhancing system modularity and driving stakeholder engagement during MVP investor pitches.

SHELL INDIA PVT LTD   **Bangalore, IN**
Software Engineer   **Aug 2022 - Sep 2023**
- Developed web tools to streamline incident workflows, reducing manual effort and improving resolution accuracy.
- Automated IT incident workflow with **Python** and Power Automate, cutting Mean Time to Respond (MTTR) by 35%.
- Designed scalable backlog-processing scripts in **Python** & **VBScript**, reducing system latency by 30%.
- Engineered custom **SQL** pipelines from multiple sources for dashboard insights used across operational teams.
- Created internal tools with **HTML**, **CSS**, **JavaScript**, **ReactJS**, and Power Apps, boosting tool usability by 40%.

SOFTWARE AG   **Bangalore, IN**
Machine Learning Engineer Intern   **Feb 2022 - July 2022**
- Designed and deployed enterprise Knowledge Graphs using **Neo4j** & **ArangoDB**, reducing NLP overhead by 50%.
- Constructed POS taggers using **spaCy**, improving customer query processing accuracy in chatbot pipelines by 25%..
- Integrated CI/CD test suites using **Jenkins**, **JMeter**, and **GitHub Actions** to ensure robust model deployment.
- Managed sprint workflows via **JIRA**, coordinating with QA and Dev teams for debugging and delivering fixes efficiently.

EDUCATION

UNIVERSITY OF CALIFORNIA, RIVERSIDE   **Riverside, CA, USA**
Master's Degree, Major in Computer Science (3.8 GPA)   **2023 - 2025**
RAMAIAH INSTITUTE OF TECHNOLOGY   **Bangalore, IN**
Bachelor of Engineering, Major in Computer Science (3.6 GPA)   **2018 - 2022**

PROJECTS

Social Connect Platform *(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 Chat System *(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: Distributed Streaming System *(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 Engine *(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, HTML, CSS, SQL.
- **Cloud & Infra**: AWS, Google Cloud Platform, Firebase, Docker, Kubernetes, CI/CD (GitHub Actions, Jenkins), RabbitMQ
- **Databases**: MongoDB, MySQL, PostgreSQL, DynamoDB, FireStore DB
- **Tools**: Linux, ReactJS, NextJS, NodeJS/ExpressJS, RxJS, Spring Boot, Pandas, Matplotlib, Git, OpenAI API, GenAI