

# Ashik Mysore Padmanabha

## Full Stack Software Engineer

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### PROFESSIONAL EXPERIENCE

#### WINWINLABS

Remote, USA

##### Full-stack Developer

Feb 2025 - Present

- Architected and implemented a scalable IoT platform with **ESP32** sensors and **WebSocket** streams on **GCP**, enabling real-time device monitoring and accelerating data visualization by 40%, which improved response times.
- Developed a high-performance **Angular** frontend leveraging **Server-Side Rendering** (SSR), **RxJS**, and **reactive signals**, delivering a smooth real-time dashboard with multi-timeframe trend analysis.
- Optimized **Firestore** data structure for sensor logs, reducing retrieval latency by 30%, improving UI responsiveness.
- Collaborated closely with hardware and product teams to integrate sensor data streams, enhancing system modularity and enabling a successful MVP presentation to investors.

#### 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**, 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

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

Riverside, CA, USA

Sept 2023 - Dec 2024

#### RAMAIAH INSTITUTE OF TECHNOLOGY

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

Bangalore, IN

Aug 2018 - Jun 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.
- Implemented 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.

#### 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:** Go, Python, JavaScript/TypeScript, Java, C, SQL, HTML, CSS
- **Frameworks & Libraries:** Angular, React, Next.js, Node.js, RxJS, Express.js, gRPC, RabbitMQ, Kafka
- **Databases:** PostgreSQL, MongoDB, DynamoDB, Firestore
- **Cloud & DevOps:** GCP, AWS, Firebase, Docker, Kubernetes, CI/CD (GitHub Actions, Jenkins)
- **AI/ML Tools:** OpenAI API, spaCy, GenAI

### CERTIFICATIONS

- **Sequence Models - DeepLearning.AI** ([Link](#))
- **Deep Learning and GenAI Applications - IIT Roorkee** ([Link](#))