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