

Akash Anumolu

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SUMMARY

Full Stack Developer with production experience in Golang (Echo), Flutter, and cloud infrastructure. Currently building scalable IoT-based Battery-as-a-Service platform at Svabag Labs — owning backend development, CI/CD pipelines, monitoring systems, and release management across 5+ microservices serving 120+ IoT devices.

EDUCATION

- **Vellore Institute of Technology (VIT), Amaravati** Guntur, Andhra Pradesh
B.Tech in Computer Science; CGPA: 8.16 2021 – 2025

EXPERIENCE

- **Svabag Labs** Hyderabad, Telangana
Full Stack Developer (Full-Time) Jan 2025 – Present
 - **Infra-Ops Pipeline:** Architected the infra-ops service in Golang (Echo) using a worker pool pattern to fetch real-time telemetry from 120+ IoT batteries and push metrics to Pushgateway → Prometheus → Grafana, designed to scale horizontally to 1000+ devices.
 - **CI/CD & Cloud Infrastructure:** Built end-to-end CI/CD pipelines using AWS CodeBuild, Docker, EC2, Nginx, and Kong API Gateway — automating build, test, and deployment for 5+ microservices (SSK App, Partner App, Admin App, Franchise App, Web3).
 - **API Gateway & Security:** Configured Kong API Gateway for JWT-based authentication, request routing, and rate limiting across all microservices, securing 20+ production REST API endpoints.
 - **Monitoring & Alerting:** Built Grafana dashboards with Prometheus for backend service health and IoT battery metrics; deployed Uptime Kuma for service availability monitoring with instant downtime alerting.
 - **Backend Development:** Developed 20+ REST APIs and database models in Golang (Echo) with MongoDB/PostgreSQL, designing schemas for battery swapping transactions, partner management, and solar-charged battery lifecycle tracking.
 - **Database Backup & Reliability:** Implemented automated database backup scripts pushing snapshots to AWS S3, ensuring disaster recovery for critical IoT and transaction data.
 - **Release Management & Code Reviews:** Managed AAB/APK release cycles for multiple Flutter apps; conducted code reviews for a 10-member team, enforcing quality standards and production-grade reliability.
- **Freelance Project** Remote
Full Stack Developer Nov 2024 – Dec 2024
 - **Business Website:** Developed a responsive website (gyplife.com) using Flutter with end-to-end ownership from requirement gathering to deployment.
 - **Hosting & Deployment:** Deployed on GoDaddy with DNS configuration, ensuring 99.9% uptime and seamless access.

PROJECTS

- **IoT Battery Monitoring System (2025):** Built infra-ops service in Golang with worker pool pattern ingesting telemetry from 120+ batteries, pushing to Prometheus via Pushgateway, visualized on Grafana with alerting — deployed on AWS with Docker and Kong.
- **Online Auction System (2024):** Built MERN stack app supporting real-time bidding, JWT authentication, and scalable auction services with MongoDB backend.
- **Task Manager (2024):** Designed task management app with Golang backend + MongoDB, enabling CRUD APIs and efficient task tracking.

ACHIEVEMENTS

- **Built Production Infrastructure from Scratch:** Designed and deployed the entire CI/CD and infra-ops pipeline at Svabag Labs using AWS CodeBuild, Docker, Kong (JWT), Nginx, and Uptime Kuma — serving 5+ microservices in production.
- **Scalable IoT Architecture:** Architected worker pool-based telemetry pipeline (Golang → Pushgateway → Prometheus → Grafana) monitoring 120+ solar-charged batteries, designed to scale to 1000+ devices without architectural changes.

SKILLS

- **Languages:** Golang, Python, JavaScript, Dart
- **Frontend:** Flutter (AAB/APK Releases), React.js, HTML/CSS
- **Backend:** Golang (Echo), Node.js, RESTful APIs, Worker Pools, Microservices
- **Databases:** MongoDB, PostgreSQL, Redis
- **DevOps/Infra:** AWS (EC2, S3, CodeBuild), Docker, Nginx, Kong API Gateway (JWT), CI/CD
- **Monitoring:** Prometheus, Pushgateway, Grafana, Uptime Kuma
- **Tools:** Git, Code Reviews, Data Structures & Algorithms