

# Gunachandru S

## Software Engineer

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### 📄 SUMMARY

Results-driven Software Engineer with over 2.6 years of experience in backend development and database engineering. Specialized in building scalable, high-performance systems using **PostgreSQL, MySQL, and MongoDB**, with proven expertise in **query optimization, indexing, partitioning, and replication**. Successfully reduced **RAM leakage from 80% to 5%** in production systems, enhancing stability and resource efficiency. Proficient in **Flask** and **RESTful API** development, with working knowledge of **GraphQL** for flexible data access. Skilled in automating database migrations using **Alembic and Flyway**, managing secure data infrastructure, and designing fault-tolerant systems. Contributed to core components of **identity issuance platforms**, focusing on **system architecture, performance, and reliability** in high-load environments.

### 📁 PROFESSIONAL EXPERIENCE

#### CyberPWN Technologies Pvt Ltd ( 1.6 years )

12/2023 – present | Bangalore, India

Software Engineer ✎

- Experienced in backend development and automation using **Python**, with hands-on expertise in **Django, Flask, and FastAPI**. Built and maintained scalable REST APIs and high-throughput services using async programming, task queues (**Celery, RQ**), and background job orchestration. Significantly improved system efficiency by reducing **RAM leakage from 80% to 5%** in production workloads for **CredIssuer**, enabling long-term stability and cost savings.
- Proficient in designing and managing relational and NoSQL databases including **PostgreSQL, and MongoDB** Specialized in schema design, indexing, normalization, and performance tuning. Automated database migrations with **Alembic** and **Flyway** as part of Docker-based CI/CD workflows using **GitHub Actions**.
- Implemented robust data infrastructure by introducing caching layers (**Redis, Memcached**), read replicas, partitioning, and sharding for scalability.
- Worked on critical components of **Identity Issuance systems** for secure and verifiable digital credentials, contributing heavily to **system design**, performance optimization, and data integrity under high-load environments.
- Extensive experience with **AWS cloud services** including **EC2, RDS, S3, Route 53**, and **CloudFront** to build fault-tolerant, distributed systems. Configured and managed **Nginx** as a reverse proxy and load balancer to improve performance and traffic handling.
- Strong foundation in **system design and architecture**, focusing on building **resilient, scalable**, and **high-availability** platforms using industry best practices in distributed computing, observability, and deployment automation.

#### Factana Computing Pvt Ltd ( 1.1 years )

11/2022 – 12/2023 | Bangalore, India

Junior Python Developer ✎

- Specialized in robust REST and RESTful API development using Flask and with all the security features.
- Proficient in designing and implementing Celery jobs for asynchronous task execution. Hands-on experience with Git, Nginx configurations, and utilizing Celery as a task scheduler.
- Expert in implementing REST APIs, creating RESTful interfaces, and generating Swagger documentation for clarity. Contributed to security enhancements, to avoid the DDoS and other security threats
- Managed security features, including CSRF tokens, JWT tokens, and authentication mechanisms. Experienced in serialization with Marshmallow and SQLAlchemy ORM for efficient data handling.

### 🎓 EDUCATION

#### Bachelor of Engineering ( 8 CGPA )

07/2017 – 07/2021 | Salem, India

Mahendra institute of Technology ✎

### 🛠️ KEY SKILLS

**APIs:** Django, REST, RESTful, FastAPI

**ORM:** ORM, SQLAlchemy, Django-ORM, GraphQL.

**Server Monitoring:** InfluxDB, Telegraf, Portainer.

**Package:** Flask, Pandas, Numpy, Celery, Flask-Migrations, Marshmallow, SQLAlchemy, Flask-Limiter, Django.

**Security:** SAST, DAST, Secure API Development, Unit Testing, Vulnerability Production.

**Deployment:** AWS, Docker, Nginx, EC2, Linux Server, CloudFront, S3, Route53.