

# Ashish Sam T George

## Software Engineer

Backend Engineer  
Cyberdome

04/2021 - 05/2023

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### Skills

- **Technical:** Python, Django, Flask, FastAPI, OpenCV, Numpy, Pandas, TypeScript, REST, GraphQL, MongoDB, PostgreSQL, Docker, Puppeteer, RabbitMQ, MinIO, AWS, Git.
- **Leadership:** Cross-functional Leadership, Strategic Vision, Stakeholder Management, Agile Methodology.
- **Interpersonal:** Team Collaboration, Presentation, Influencing Without Authority, Adaptability.

### Professional Experience

**Software Engineer** 09/2023 - present  
*Experion Technologies*

- Fine-tune Open Weight Models with corporate data spanning across **10 departments**. Actively used by **3000+** users across multiple countries.
- Deploy custom production-grade AI models using vLLM, **reducing cost by 30%**.
- Extract data from images and PDFs using AI, converting into other formats like markdown and JSON, along with the corresponding bounding boxes
- Lead development of a proprietary tool to manage IT assets across **11 locations on 4 continents**, replacing a third-party solution.
- Introduce the MVC architecture to **manage 4000+ assets**, thereby restructuring the request workflow and **streamlining operations for 3000+ employees**.
- Engineer an automated solution for collecting host system information, **boosting data accuracy by 40%** and **saving 72+ man-hours** monthly.
- Engage **10+ global stakeholders** to deliver a solution meeting international standards, enhancing worldwide alignment and **improving project outcomes by 25%**.

**Freelance Developer** 05/2023 - 10/2023

- Engineered the backend using Java and Spring Boot to manage church tithe data, **increasing data processing speed by 50%**.
- Orchestrated Vue.js to design a responsive UI, enabling non-technical users to effortlessly navigate the system, **increasing user engagement by 50%**.
- Containerized the entire application using Docker to optimize deployment on AWS, **saving more than 2.5 hours per deployment**.

- Pioneered the development of **scalable and distributed dark-web surveillance software** with state law enforcement, actively **used by five police forces**.

- Managed message queues to facilitate seamless inter-service communication, **accelerating URL crawling throughput by more than 60%**.

- **Upgraded to GraphQL APIs** for TOR integration and website screenshot capture, minimizing server load and **cutting network requests by 80%**.

- **Architected health check endpoints** for near real-time monitoring, enabling Kubernetes to automatically manage pod lifecycle.

### Open Source and Community

**Authored 1000+ GitHub contributions**, demonstrating commitment to collaborative software development.

- Contributed to 'zerox' by **implementing the algorithm to extract bounding boxes** from PDFs, enabling accurate markdown generation.

### Projects

#### **Converse**

*Created a natural language interaction platform for PDFs and databases, **used by 70+ users**.*

- Launched using Flask, PostgreSQL, React, and Gemini to ensure high performance and reliability, which steered a **98% user satisfaction rate**.
- Devised text extraction and processing algorithms to accurately retrieve and interpret data, **reducing processing time by 60%**.

#### **WhisperNet**

*Designed a cross-platform application for Windows, Linux, and Mac, securely gathering and transmitting system information to a specified API.*

- Built using Golang for cross-platform capability, **deployed on 1500+ systems**, improving data collection efficiency.
- **Achieved 99% compatibility** through rigorous testing and debugging, **reducing bugs by 70%** across all supported platforms.

#### **Pigihi**

*Established an e-commerce platform to facilitate purchases from shops using both fiat and cryptocurrencies across six blockchain networks.*

- **Adapted cryptocurrency payments** with MetaMask in a **microservice-oriented architecture, attaining 3x scalability** and financial transparency.
- Employed the YOLO model for object detection, **improving product search accuracy by 90%**.

### Education

**Master of Computer Applications**  
*APJ Abdul Kalam Technological University*

04/2023