

# Khyrul Bashar Jubayer

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## Professional Summary

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Senior Backend Engineer with 6+ years of experience building scalable, reliable, and cloud-native systems. Skilled in Python (FastAPI, Django), DevOps, and MLOps — with hands-on experience integrating AI/ML solutions into production systems.

I work across AWS, Docker, and CI/CD pipelines, focusing on performance, observability (Prometheus, Grafana, Loki), and seamless automation. Experienced in designing RAG-based platforms, optimizing APIs, and migrating large-scale data architectures with high reliability.

Passionate about creating systems that scale effortlessly, mentoring teams, and driving engineering excellence. Open to backend-heavy, SRE, and DevOps roles that value reliability, scalability, and intelligent system integration.

## Skills

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Programming Languages	Highly Skilled: Python Intermediate Skilled: Java, javascript, TypeScript
Frameworks and Libraries	FastAPI, Django, React
Databases and others	PostgreSQL, Mongoddb, ElasticSearch, Redis, Qdrant
Cloud & Infra	Docker, CI/CD with Github actions, Jenkins AWS - ECS, EC2, S3, Lambda, LightSail, Amplify
Monitoring	Grafana, Prometheus, Loki, Jaeger

## Projects

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### ConvoPilot: AI assistant for smart sales teams (Secured Top place in AI hackathon competition)

Convo-Pilot is a customer support AI assistant for f-commerce sales teams. We built an AI system that has humans in the loop. The core value is giving humans control — the ability to weigh in on what the AI should do in any situation.

- Task delegation to Agents based on customer's message intentions.
- RAG based knowledge grounding to answer business specific questions.
- MCP server to answer complex queries directly from DB.

- Personal information masking to preserve privacy
- Fine-tuning for better local language support
- **Tech Stack: Pydantic-AI, Ollama, Qdrant, UnSloth, FastAPI & Postgres**

## Work Experience

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### Senior Software Engineer at Cefalo

Dhaka, Bangladesh, 01/2025 - Present

- Application Monitoring Infrastructure design and development.
- Performance improvement in key areas e.g. decreased memory usage 50%, response time 90%
- Successfully migrated Billions of data rows from single database architecture to tenant architecture.
- **Tech Stack: FastAPI, FastAPI, PostgreSQL, Jenkins, Grafana, Prometheus, Loki, Jaeger**

### Software Engineer at Gigalogy

Dhaka, Bangladesh, 09/2023 - 12/2024

- Led the backend development of a Retrieval Augmented Generation (RAG) SaaS platform and assisting frontend teams in design and developing client services.
- Designed a concept of profiles that let users create reusable and easily customizable GPT persona. That made 90% decreases in prompt Ideation and experimentation to deployment time.
- Developed a Large language Model based empathetic and responsive product recommendations system that is now deployed in 5+ Japanese e-commerce sites.
- Mentored junior software engineers, enhancing team proficiency in development tools and best practices.
- **Tech Stack: LLM, OpenAI, Anthropic, FastAPI, PostgreSQL, ElasticSearch & Qdrant, RAG**

### R&D Team Lead at Unipolar Automation Technologies

Dhaka, Bangladesh, 07/2019 - 08/2023

- Designed a synchronous weight logging system, optimizing product tracking and data synchronization, boosting operational efficiency by 30% and reducing erroneous data entry significantly.
- Crafted a desktop app for real-time power failure monitoring systems for power distribution hubs under DPDC.
- Written OPC-UA protocol libraries, enhancing system compatibility and reducing integration times by 40% for industrial automation projects.
- Developed a desktop application to run a concrete mixing plant that increased the plant's operational efficiency.
- **Tech Stack: Django, PostgreSQL, AWS EC2, QT PySide6, Docker, Websocket, MongoDB**

## Open Source Contribution

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### Apache Foundation, Google Summer of Code

Remote, 04/2015-08/2015

- Developed a PDF debugging desktop software based on Java swing framework. This application aids users in finding out issues with PDF files and debugging those issues through visual and hex editors.
- Project link: <https://issues.apache.org/jira/browse/PDFBOX-2530>
- **Tech Stack: Java, Swing, PDFBox**

## Education

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**Bachelor in Computer Science and Engineering (CSE)** from Chittagong University of Engineering and Technology  
(CUET)