

# Rahul Subash

## Developer II – AI Developer

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Bengaluru, IN

[in](#) [Rahul Subash](#)

### SUMMARY

AI & Generative AI Developer with over 6 years of experience in building AI-driven solutions, NLP systems, and cloud-native architectures. Proven track record in deploying vector-based retrieval systems, developing REST APIs, and automating web scraping pipelines. Skilled in Python, Node.js, ChromaDB, and Azure AI Search, with deep exposure to Generative AI, LLMs, and LangChain. Experienced in data visualization, project delivery, and process improvement. Strong leadership skills with a focus on team coordination and debugging. Currently seeking opportunities in AI / GenAI-focused roles to create impactful, scalable applications.

### PROFESSIONAL EXPERIENCE

#### AI Developer

Jan '22 - Present

#### Kyndryl - Developer II

Bengaluru, IN

*Kyndryl Builds On A Foundation Of Excellence By Creating Systems In New Ways. Turn Potential Into Reality With Kyndryl Expertise, Value Creation, Speed & Agility. Infrastructure Services. Heart Of The Progress. Power Human Progress. Thrive On Change.*

##### 1. GenAssist AI – Enterprise Chatbot for Knowledge Retrieval

- Developed a **Generative AI-powered chatbot** using **LLMs**, enabling semantic search across SharePoint, GitHub, and internal docs.
- Integrated **ChromaDB** and **Azure AI Search** for vector search with **90%+ retrieval accuracy** on context-relevant queries.
- Leveraged **LangChain** for dynamic embedding lookup, boosting employee knowledge access efficiency by **30%**

##### 2. AI for IT Operations & Monitoring

- Built predictive and anomaly detection models with **85% accuracy**, enhancing infrastructure reliability and proactive issue detection.
- Delivered real-time dashboards using **Python, Node.js, and MongoDB** for continuous system insights.

##### 3. Cloud-Based Multi-Cloud Inventory System

- Designed scalable data pipelines integrating AWS, Azure, and GCP into unified MongoDB storage.
- Managed **inventory data** and calculated **resource health metrics** using **Jupyter notebooks, AWS SQS, and AWS Lambda** for event-driven processing.
- Enabled **30% faster cross-cloud data access** and powered analytics dashboards via REST APIs.

##### 4. AWS Data Lake

- Developed an **AWS Data Lake** infrastructure using **S3, Lambda, Glue, and Data Lake services** to ingest and process raw data into refined datasets stored in MongoDB.
- Utilized **notebooks, AWS SQS, and Lambda functions** to manage inventory and calculate resource health metrics for multi-cloud assets.

##### 5. Migration from Elasticsearch to MongoDB

- Led full migration of AI/monitoring systems, improving query speeds by **40%** and achieving **99.9% data consistency**.

##### 6. Web Scraping & SharePoint Crawling Automation

- Developed automated crawlers using **Selenium** and **BeautifulSoup**, with **98%+ data extraction accuracy**.
- Implemented scheduler pipelines ensuring up-to-date knowledge repositories.

##### 7. MLOps & DevOps Integration

- Developed microservices using **Docker, Kubernetes, and Terraform**.
- Implemented **CI/CD pipelines** with **GitHub Actions** and deployed to **AWS Lambda** for serverless workflows.
- Orchestrated complex workflows and automation using **Argo Workflows** and **Cron Workflows** on Kubernetes for efficient scheduling and management of AI pipelines.

#### Senior UI Developer

Nov '21 - Apr '22

#### Capillary Technologies – Software Engineer

Hyderabad, IN

*Capillary Technologies is a global leader in AI-powered customer engagement and loyalty solutions, enabling brands to build personalized experiences and drive business growth. Their platform leverages advanced data analytics, AI, and omnichannel marketing to transform customer interactions into lasting relationships.*

- Developed feature-rich **e-commerce portals** using **JavaScript, Node.js, HTML, and CSS**, enabling seamless **customer onboarding, order processing, and loyalty program** integration.
- Built **referral, coupon redemption, and feedback applications** to increase customer engagement and enhance brand loyalty.
- Delivered **real-time in-store data capture tools** for improved customer interaction and personalized service at retail outlets.

- Designed and implemented **responsive UI/UX** by converting PSD designs into **W3C-compliant**, cross-browser compatible web pages.
- Ensured high performance and accessibility standards across devices, optimizing page load times and responsiveness.
- Collaborated with backend teams to integrate and optimize RESTful APIs, improving data flow and frontend interactivity.
- Led code reviews, debugging sessions, and performance tuning to enhance application scalability and maintainability.

## KEY SKILLS

• Artificial Intelligence (AI) • Generative AI & Large Language Models (LLMs) • Natural Language Processing (NLP) • Vector Embeddings & Semantic Search • LangChain • Retrieval-Augmented Generation (RAG) • Prompt Engineering • Machine Learning (ML) • Deep Learning (DL) • Python • Node.js • JavaScript • REST API Design & Development • Data Engineering & ETL Pipelines • MongoDB • Elasticsearch • Cloud Platforms: AWS (S3, Lambda, Glue), Azure (Azure AI Search, AI Services) • Serverless Architecture • Microservices • Containerization (Docker, Kubernetes) • Infrastructure as Code (Terraform) • CI/CD Automation (GitHub Actions) • MLOps & Model Deployment • Web Scraping & Automation (Selenium) • Workflow Orchestration (Argo Workflows, Cron Jobs) • Data Visualization (Streamlit, Dash) • Scalable System Design • Security & Compliance • Agile & Scrum Methodologies • Cross-functional Team Collaboration • Performance Optimization • Problem Solving & Debugging • Excellent Communication Skills

## TECHNICAL SKILLS

**Languages:** Python, JavaScript, Node.js

**AI & Machine Learning:** Natural Language Processing (NLP), Recommendation Systems, Vector Embeddings, Semantic Search, Generative AI, **Large Language Models (LLMs)**, LangChain, Retrieval-Augmented Generation (RAG), ChromaDB, Azure AI Search, **ChatGPT**, Hugging Face Transformers

**Cloud Computing:** AWS, EC2, Docker, GCP, Azure

**Databases:** MongoDB, Elasticsearch, Logstash

**Automation & Web Crawling:** Selenium, BeautifulSoup

**Architecture & DevOps:** Microservices, Serverless Architectures, Containerization (Docker, Kubernetes), Infrastructure as Code (Terraform), CI/CD Pipelines (GitHub Actions), Argo Workflows.

**Developer Tools:** **GitHub Copilot**, **GitHub Desktop**, Git, VS Code, Jupyter Notebooks

**Other Technologies:** REST API Development, Performance Optimization, Security & Compliance, Data Visualization & Dashboarding (Streamlit), Workflow Automation.

## RECOGNITION

- **Best Employee Award** (twice) for innovation and project excellence
- Multiple **Client and Internal Appreciations** for impactful deliveries

## ADDITIONAL ACHIEVEMENTS & VOLUNTEER EXPERIENCE

- Implemented the Automation Tools for website Testing using Selenium WebDriver with Python programming
- Presented on the topic "**Data-Driven Agriculture: Smart Farming Powered by Geoprocessing AI**" at the **IEEE CCEM Conference**, showcasing innovative applications of AI in agriculture for enhanced decision-making and productivity.
- Participated in the **IEEE CCEM Conference** and presented on "**TransFlowAI: Empowering Cities with Smarter Traffic Solutions**," highlighting AI-driven approaches for optimizing urban traffic management and enhancing city infrastructure.

## EDUCATION

B.Tech – Computer Science  
CMR Institute of Technology, Bangalore | 2013 – 2017