

MAYUR PAI

AI-Centric Full Stack Engineer

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PROFESSIONAL SUMMARY

Results-driven Senior Full Stack Developer and AI/ML Engineer with **3+ years of progressive experience** delivering scalable web applications and AI-powered solutions for enterprise clients across **healthcare, banking, and automation sectors**, including a **Fortune 500 organization**. Deep expertise in **Generative AI, RAG Pipelines, and LLM Workflows** leveraging cutting-edge technologies including **Azure OpenAI, LangChain, AWS Sagemaker, GroqCloud, and Streamlit**. Proven technical leader skilled in **Java/Spring Boot, React.js, Python**, and cloud-native architectures leveraging **Azure, Docker, and Kubernetes**. Drives rapid adaptability and cross-functional project delivery with unwavering focus on measurable business outcomes and enterprise-grade solutions.

TECHNICAL SKILLS

Programming & Frameworks: Java, Python, JavaScript, TypeScript, C/C++; Spring Boot, FastAPI, Flask, Rasa, Spring Microservices, REST APIs.

Frontend & UI: React.js, Next.js, Bootstrap, Tailwind CSS, SASS, HTML5, CSS3, Responsive Design.

AI/ML & LLMs: Generative AI, Large Language Models (LLMs), Machine Learning, Deep Learning, NLP, Retrieval-Augmented Generation (RAG), LangChain, Hugging Face, Streamlit, Chainlit, Chatbot Development, Model Fine-tuning, PEFT, QLoRA, AWS Sagemaker.

Databases & Tools: PostgreSQL, MySQL, MongoDB, Redis, Neo4j, SQLAlchemy, Postman, VS Code, Eclipse, WindSurf, JUnit, Mockito.

Cloud & DevOps: Microsoft Azure (Azure OpenAI, AKS, Key Vault, Cognitive Services), Docker, Kubernetes, Jenkins, GitLab CI/CD, GitHub Actions, Linux, Nginx, Git, Maven, Gradle.

PROFESSIONAL EXPERIENCE

Endava Solutions India Private Limited (formerly GalaxE. Solutions)

Aug 2022 – Present

Senior Developer (Promoted: Associate → Developer → Senior)

International Technology Park Ltd., Bangalore

- Delivered **8 diverse projects** across **healthcare, banking, and AI** domains, demonstrating rapid adaptability and cross-functional expertise
- Architected enterprise log analyzer for **Fiserv** (Fortune 500 fintech) using **Streamlit** and **Castle Framework APIs**, reducing manual analysis time by **70%** through automated **Splunk** metrics extraction
- Led Generative AI chatbot development for **SOPHIA GENETICS** with **RAG pipelines, Azure OpenAI, and AKS** deployment, achieving **85% faster resolution** and **120+ hours/month** savings
- Architected **ETL** platform (**GxCapture**) using **FastAPI/Python** for high-volume pipeline automation and developed **GxBot** with **LLaMA 2, Redis, and AWS Sagemaker** for NLP workflows
- Delivered **GxWave** pharmacy analytics platform using **Spring Boot/React** with **ML forecasting** and created **GxCodeDescriptor** LLM-based pseudocode generator with **Neo4j** integration, improving onboarding by **40%**
- Started as trainee on **GxClaims**, building full-stack applications with **Spring Boot, React, JUnit, and PostgreSQL** integration
- Mentored 4 junior developers, accelerating their productivity by 40% through architectural guidance and technical coaching, while resolving 50+ critical blockers across projects

FEATURED PROJECTS

Agentic AI Support Chatbot

SOPHIA GENETICS | Feb 2025 – Apr 2025

- Built end-to-end Generative AI assistant using **Streamlit**, later scaled to **React.js + PostgreSQL** stack for enterprise deployment
- Integrated **RAG workflows** with **Redis** and **Azure Search** for real-time, contextual documentation retrieval
- Enabled multimodal processing (PDF, Word, image) via **Azure Computer Vision** OCR and **Azure OpenAI** inference
- Deployed on **Azure Kubernetes Service (AKS)** with **Docker** containerization and **GitLab CI/CD**
- Impact:** Reduced L1 query resolution from 15+ mins to under 2 mins, saving **120+ hours/month**

GxBot - Enterprise Chatbot Platform

Customer Support Automation | Apr 2024 – Sep 2024

- Built enterprise chatbot using **FastAPI, Redis, AWS Sagemaker**, and fine-tuned **LLaMA 2** with **PEFT/QLoRA** for domain-specific NLP
- Implemented advanced NLP pipelines for **intent recognition, entity extraction, and dynamic prompt generation**
- Applied **design patterns** (Chain of Responsibility, Strategy, Factory, Singleton) for scalable, modular architecture
- Integrated with **ManageEngine Service Desk Plus** for automated ticket creation and escalation workflows
- Impact:** Reduced support response time and automated 60% of routine inquiries

AWARDS & ACHIEVEMENTS

- Awarded **Outstanding Contribution** and **Trainer Awards** at Endava Solutions for delivering high-impact projects and mentoring junior developers across cross-functional teams
- Generated **110,000+ clicks and 567,000+ impressions** in three months via SEO-optimized websites, tracked using Google Search Console
- Earned **Elite Silver Certification** in *Introduction to Programming in C* from NPTEL, recognizing top performance at the national level
- Completed **LinkedIn Skill Assessments** with verified badges in C, C++, HTML, CSS, JavaScript, React, Git, SEO, and Front-End Development

EDUCATION

Sahyadri College of Engineering and Management

Bachelor of Engineering in Information Science Engineering | **GPA: 9.31/10.0, Top-Ranked Scholar**

Graduation: July 2022

Adyar, Mangalore

- Relevant Coursework: Machine Learning, Data Structures & Algorithms, Database Management Systems, Computer Networks & Security, Software Engineering Principles & Practices, OOP, Unix & Shell Programming