Rahul Krishna Pallath

Software Engineer | AI/ML, Full-Stack, Scalable Systems | Lubbock, TX

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PROFESSIONAL SUMMARY

Results-driven Software Engineer with 4+ years of experience delivering scalable web applications and production-ready AI/ML solutions using Python, JavaScript, and Java. Proven expertise in building intelligent systems, designing robust APIs, and deploying end-to-end machine learning pipelines across cloud-native environments. Skilled at collaborating cross-functionally to transform complex data into impactful user-facing features.

TECHNICAL SKILLS

Languages: Python, JavaScript, TypeScript, Java
AI/ML Frameworks: Scikit-learn, TensorFlow, PyTorch, NLTK, Pandas, NumPy
Web Technologies: React, Next.js, Node.js, Express, Spring Boot, REST API design
DevOps Tools: Docker, Kubernetes, Terraform, Pulumi, Jenkins, TravisCI, CI/CD pipelines
Databases: MySQL, PostgreSQL, MongoDB, Redis

RELEVANT EXPERIENCE

Software Engineering Intern, Mphasis Corporation, New York, NY   *May 2024 – Aug 2024*
- Developed a fraud detection model to identify anomalies in banking transactions, significantly improving operational risk mitigation.
- Integrated real-time scoring into backend systems, enabling faster decision-making with minimal manual oversight.
- Automated retraining workflows and streamlined model deployment through CI/CD, ensuring consistent and scalable updates.

Frontend Consultant, Deloitte Consulting, Bangalore, India   *Aug 2020 – Aug 2023*
- Led the design and delivery of reusable UI components and enterprise portals, reducing delivery cycles and increasing frontend consistency.
- Partnered with product, design, and QA teams to deliver accessible, scalable interfaces used by thousands of users across multiple accounts.
- Mentored junior engineers, enforced coding standards, and drove continuous quality through peer reviews and sprint retrospectives.
- Delivered a complete accessibility revamp for a client portal, increasing usability and earning a 100% WCAG compliance audit.

Software Developer, ATNA Technologies, Bangalore, India   *July 2019 – May 2020*
- Designed and implemented a personalized recommendation engine that improved customer engagement through targeted product delivery.
- Delivered actionable business insights by segmenting customer behavior data to support smarter marketing strategies.
- Collaborated with cross-functional teams to launch and maintain intelligent platform features with real-world retail impact.

PROJECTS

MindMate – AI-Powered Self-Care Companion   *Next.js, React, Zustand, OpenAI, Vercel*
- Built a mood-aware journaling and chatbot app powered by GPT-4 APIs, designed to help users track mental wellness through conversational feedback.
- Deployed a responsive frontend using Next.js and Zustand, optimized with edge caching for seamless experience across global users.

FairNews – Bias-Aware News Recommender   *Python, Flask, Scikit-learn, NLTK*
- Designed an ML pipeline to classify political bias in news articles and re-rank search results based on fairness metrics like exposure parity.
- Served recommendations through a Flask API and evaluated accuracy using cross-validation and real-world testing datasets.

SPARC – AI-Powered Academic Grading UI   *React, Tailwind, GraphQL, .NET APIs*
- Engineered a live grading interface for logic programming tasks, incorporating AI-generated feedback into a clean React-based UI.
- Implemented GraphQL queries to efficiently pull structured grading data from .NET APIs, with live visual cues.

EDUCATION

Texas Tech University, Lubbock, TX
Master of Science in Computer Science   *Aug 2023 – May 2025*
Relevant Coursework: Machine Learning, Distributed Systems, Cloud-Native Development, Relational Databases