T S Ajeet

portfolio
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Education

- **National Institute of Technology, Trichy (NITT)** — Trichy, India
  Bachelor of Technology in Production Engineering; CGPA: 8.64 — *Aug 2019 – May 2023*

Experience

- **Citi** — Pune, India
  Senior Software Engineer (C11) — *Jul 2022 – Present*
  - **Agentic AI Risk Triage System**: Architected Arthur, an enterprise-grade agentic AI risk triage system using Python, Google ADK, and Spring Boot to automate review workflows for New Activity Managers, resulting in reducing end-to-end triage cycle turnaround time from 2–3 months down to 1–2 weeks.
  - **Agentic System Optimization**: Optimized agentic AI reasoning pipelines by implementing tool call caching and parallel tool execution, resulting in a 45% reduction in end-to-end inference latency for complex multi-step workflows.
  - **Model Context Protocol (MCP)**: Architected and deployed a custom Model Context Protocol (MCP) server from scratch to standardize secure data access, resulting in accelerated tool integration and consumption across 5+ internal production AI applications.
  - **AI-Assisted Frontend Migration**: Executed a comprehensive frontend architecture migration from Angular to React by leveraging Devin AI to automate component translation and enforce modern coding standards, resulting in a fully optimized, production-ready codebase delivered in just 1 month.
  - **ML Prediction Framework**: Engineered a configuration-driven machine learning prediction framework in Python dynamically supporting heterogeneous model inputs, feature matrices, and runtime dataframes, resulting in cutting model onboarding time from 4 months to 2 months and decreasing integration defect rates by 60%.
  - **Policies Portal Development**: Architected the full-stack Policy Search engine and Policies BWD UI from scratch using Angular and Spring Boot microservices, resulting in scaling the platform from 0 to 10,000+ active Citi employees across 1,000+ global compliance policies.
  - **Awards & Recognition**: Recognized with the Best Process Improvement Recommendation award for engineering the ML prediction framework, resulting in a direct presentation of the solution and its efficiency gains to the Managing Director of Finance Technology.
  - **Accelerated Career Progression**: Earned consecutive, rapid promotions from Junior Software Engineer (C09) to Senior Software Engineer (C11) within a 3-year span, resulting from a consistent track record of delivering high-impact enterprise platforms and spearheading early AI adoption.
- **Citi** — Pune, India
  Software Development Engineer Intern — *May 2022 – Jul 2022*
  - **Automated CI/CD Pipeline**: Built an automated CI/CD build and deployment pipeline from scratch using Jenkins and Docker containers, resulting in reducing manual build and deployment release cycles from 6 hours to 30 minutes.
- **Finllect** — Dubai, UAE (Remote)
  Software Development Engineer Intern — *Jan 2022 – Apr 2022*
  - **Financial Tracking API**: Built modular RESTful services in Node and Express with MongoDB for automated financial goal tracking and user expense categorization.

Projects

- **Shadow**: Built an AI-powered platform that generates source-linked documentation for GitHub repositories, with Mermaid diagrams, code Q&A, and incremental sync as repositories change. **Tech**: Next.js, TypeScript, PostgreSQL, pgvector, Inngest, Gemini.
- **Questionnaire Aware Agent**: Engineered an Agent and built the underlying RAG and MCP to autonomously analyze complex questionnaires and supporting documents, generating evidence-backed approval recommendations. **Tech**: Python, Google ADK, RAG, MCP, Spring Boot.

Skills & Achievements

- **Languages**: Java, TypeScript, Python
- **Technologies**: React, Next, Angular, Spring Boot, Node, MongoDB, Kubernetes, Langgraph, Google ADK