

Mohd Aman

Forward Deployed Engineer

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Professional Summary

Forward Deployed Engineer with **5 years of software engineering experience**, including **2+ years of direct client-facing work** delivering GenAI and agentic AI solutions for enterprise banking workflows. Work directly with client stakeholders across multiple teams to understand business problems, clarify requirements, determine suitable AI approaches, demonstrate solutions, handle feedback, troubleshoot issues with engineering teams, and iteratively refine solutions through human-in-the-loop review. Hands-on experience designing and implementing **Python tools and connectors** for Jira, Confluence, GitHub, and Bitbucket within HCLTech AIForce, supported by a strong software engineering background in **C#, .NET, and telecom systems**.

Core Skills

AI & GenAI	LLMs, RAG, Prompt Engineering, Agentic AI, Multi-Agent Systems, Tool Calling, Context Orchestration, Evaluation, LLM-as-a-Judge, Human-in-the-Loop
Engineering	Python, C#, .NET, Git, Docker
Enterprise Integrations	Jira, Confluence, GitHub, Bitbucket
Data	Vector Databases

Professional Experience

Platform Engineer I Forward Deployed Engineer HCLTech	Jan 2022 – Present Noida, India
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Deutsche Bank Banking – Compliance	Jul 2024 – Present
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- Work directly with client stakeholders on a daily basis across approximately **6–7 cross-functional teams** to understand business problems, clarify requirements, identify opportunities for AI adoption, and align solutions with client workflows.
- Participate significantly in client problem discovery and independently determine appropriate solution approaches using available AIForce capabilities, while consulting with the engineering team for technical alignment.
- Utilize **RAG, agentic and multi-agent workflows, prompt engineering, tool calling, context orchestration, evaluation, and human-in-the-loop review** to develop AI-enabled solutions for client use cases.
- Design and implement approximately **7–8 Python tools/connectors** integrating AIForce with **Jira, Confluence, GitHub, and Bitbucket** to enable interaction with external enterprise systems.
- Develop both reusable/general-purpose tools used across multiple workflows and use-case-specific tools based on client requirements.
- Deliver and iterate AI-driven SDLC workflows spanning **requirements, prototypes, epics, user stories, test cases, code generation, and change-impact analysis**.
- Regularly **demonstrate working solutions to client teams**, collect feedback, handle follow-up questions, investigate issues collaboratively with engineering teams, and regenerate or refine solutions based on client feedback.
- Participate in comparative evaluation of AI-generated outputs against other AI tools and use client feedback to iteratively improve solution quality and workflow effectiveness.
- Contributed to measurable client-solution outcomes of approximately **70% generated-output accuracy, 40% operational-efficiency improvement, and 20% reduction in SDLC cycle time**.

Deutsche Bank AI-assisted Legacy Migration	Jul 2024 – Jun 2025
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- Worked on migration of a **C# MVC application to Java and React** using AI-assisted workflows, contributing to both reverse engineering and code-generation activities.
- Reverse engineered the existing codebase and used the resulting understanding to support generation of requirements and subsequent migration artifacts.
- Applied the workflow to an actual project requirement spanning **requirements, prototype, epics, stories, test cases, and code**, with client teams reviewing and validating outputs at multiple stages.
- Client teams compared generated outputs with other AI tools and provided feedback that was incorporated through repeated regeneration and refinement of the workflow.
- Generated Java and React code was used directly as part of the client migration after customization and issue resolution by developers from the actual application team.
- Achieved approximately **40% reduction in manual effort** for the evaluated end-to-end requirement workflow.

Keysight Technologies Telecom – LTE & 5G	Sep 2022 – Jul 2024
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- Developed a **C# Windows application** for the Protocol Research and Development Tool (PRT), used to simulate LTE and 5G NR scripts.
- Worked across GUI, driver, and interface components of the application, contributing to development and maintenance of client software.

- Enhanced application performance and reliability through **object-oriented design and optimization**.
- Worked on network communication based on the **LTE and 5G NR protocol stacks**, gaining experience with telecom protocol behavior and communication systems.
- Worked on internal proof-of-concept projects using Python and Go, while having limited client interaction compared with the current Deutsche Bank engagement.

TT Consultants | Patent research Analyst

Aug 2020 – Dec 2020

- Contributed to patentability research projects involving technical subject-matter analysis and prior-art search activities.
- Developed structured search techniques to identify relevant patent literature and technical information for research assignments.
- Gained practical experience working with intellectual-property databases, including **Derwent**, and developed familiarity with patent research and patentability analysis workflows.

Signify Innovations | Intern

May 2019 – Jul 2019

- Worked on solar R&D projects involving **power supplies, ammeters, voltmeters, and battery simulators**, gaining practical experience with electrical measurement and testing equipment.
- Programmed microcontrollers for efficient power regulation as part of the **Philips AIO Hybrid Sun Stay** project.
- Supported experimentation and testing activities related to power-management components and embedded control requirements.

Selected Projects

ArChess

Python, Flask, SQLite

- Personally designed and developed a functional physics-driven chess variant that is currently under active development, covering the application architecture, backend APIs, data layer, gameplay mechanics, authentication, match persistence, and leaderboard functionality.
- Implemented a browser-based physics and collision system in which chess pieces can be aimed, launched, collide, rebound from board boundaries, and inflict damage based on physical interaction.
- Built structured application logging with request and correlation IDs, telemetry capture, and automated log-retention and cleanup mechanisms.
- Maintained engineering documentation covering system architecture, API contracts, database design, physics and collision mechanics, logging conventions, and implementation decisions.
- Organized the application into dedicated backend, frontend/static, templates, data, documentation, and logging components with automated test and coverage tooling.

Health Monitoring Alert System

Python

- Developed a personal Python system that continuously monitors health parameters such as heart rate, blood pressure, and SpO2 from CSV-based data input.
- Implemented threshold-based anomaly detection and automated alert notifications to family members, hospitals, and police stations when critical conditions are detected.
- Implemented escalation behavior in which repeated alerts are issued when no response is received, followed by escalation to family and emergency services.
- Added unit tests to validate monitoring and alerting behavior across different scenarios.

Hidden Queen Chess

C#, ASP.NET

- Designed and developed a personal web-based chess variant in which one pawn is secretly assigned as a hidden queen, introducing an additional strategic mechanic to conventional chess.
- Built the responsive frontend using HTML, CSS, and Bootstrap and implemented backend game logic and hidden-queen mechanics using ASP.NET and C#.

Content Delivery Network

Go, Distributed Systems

- Built a lightweight CDN as a learning project with an **Origin – Mid – Edge** topology to understand hierarchical content delivery and caching behavior.
- Implemented client-server communication and explored cache retrieval, cache invalidation, content expiration, and cache eviction scenarios.
- Worked with observability and cache metrics covering request counts, bytes transferred, response times, time-to-first-byte, storage usage, and cached-content statistics.

Education

Bachelor of Technology in Electronics and Communications

Indian Institute of Information Technology, Una, Himachal Pradesh

Graduated 2020