

Ashutosh Modi

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EXPERIENCE

Amdocs

Sep 2022 – Present

Software Developer — Telecom Backend Platform

Gurgaon, India

- Designed and shipped a **Tuxedo** → **gRPC migration framework** for a Tier-1 telecom backend that preserves **every line of business logic**; validated as POC on a production service and now being rolled out across CK Hutchison's **Three UK** and **Three Ireland**, removing a multi-million-dollar Oracle dependency.
- Drove day-to-day technical execution for a **4–5 engineer team** (mix of peers and seniors) on a Tier-1 telecom platform-modernization program since **Dec 2025** – code review, unblocking, and the engineering manager's primary technical interface (informal capacity).
- Replaced **TIBCO WebFOCUS** (formerly Information Builders) reporting with an in-house Python library plus a Lex/Yacc auto-converter for **500+** legacy scripts, eliminating **millions in annual licensing per client deployment**.
- Hardened a long-lived C/C++ codebase: guard-clause refactors reduced potential vulnerabilities by **30%**, a build-time prototype generator catches **80%** of would-be production defects, and **95%** of legacy compile-time warnings were resolved.
- Owned company-wide rollout of **Cursor** as the AI development platform (team knowledge base, agent skills, workflow rules) plus reusable Vim / VS Code snippets and Shell automation – cutting team toolchain friction by **50%+**; operate Oracle DB on large telecom datasets.

SELECTED PROJECTS (AMDOCS)

Tuxedo → **gRPC Migration Framework** | *gRPC, Protobuf, HAProxy, Consul, Nomad* Jun 2025 – Nov 2025

- Designed and shipped a complete Tuxedo → gRPC migration framework – a generic protocol shim translating Tuxedo's flattened buffers into strongly-typed Protobuf with **zero changes to business code**, on a runtime of **HAProxy + Consul + Nomad** (with Consul Template auto-syncing config) that breaks the C-only ecosystem lock-in.
- Validated end-to-end as a POC on a production service; currently being rolled out across multiple Tier-1 European carriers (CK Hutchison's **Three UK & Three Ireland**) for fleet-wide adoption.

Internal AI Development Platform | *Cursor, Agent Workflows, Knowledge Engineering* Aug 2025 – Present

- Owned company-wide rollout of **Cursor**: authored the team's knowledge base, agent skills, and workflow rules from scratch and built end-to-end agent workflows (**git** ops, PR creation, recurring code-review tasks invocable from natural language) that eliminate dozens of repetitive keystrokes per developer per day.
- Engineered a **layered context-loading strategy** that prevents context-window blowout on large telecom codebases – letting agents reason over multi-MB code surfaces without losing track of project conventions.

XFocus | *Python, Pandas, NumPy, Lex/Yacc* Jul 2024 – Present

- Built a declarative Python library on Pandas/NumPy that replaces **TIBCO WebFOCUS** for telecom business reporting, eliminating millions in annual licensing per client and giving the team a fully open, scriptable reporting surface.
- Authored a Lex/Yacc compiler that auto-converts legacy WebFOCUS scripts to the new library, cutting per-script migration time from **48 hours** → **40 minutes** across **500+** scripts.

C/C++ Prototype Generator | *Lex/Yacc, Shell* Jun 2023 – Sep 2023

- Lex/Yacc compiler that scans every C source at build time and generates function prototypes, integrating them via preprocessor **#if** guards across **500+** C files – catching bad merges, incorrect function usage, and type mismatches at compile time (the 80% defect-catch metric in Experience).

TECHNICAL SKILLS

Languages: C/C++, Python, Rust, SQL, Linux Shell Scripting

Distributed Systems: gRPC, Protobuf, HAProxy, HashiCorp Consul, HashiCorp Nomad, Consul Template, Kafka

Tooling & Databases: Lex/Yacc, Git/GitHub, Vim, VS Code, Tmux, Linux/UNIX, Oracle DB, Cursor

Concepts: Distributed Systems, Microservices, Service Discovery, Load Balancing, High Availability, Knowledge Engineering, AI Agent Workflows, Context Design, Data Structures & Algorithms, System Design

EDUCATION

Guru Nanak Dev University

2018 – 2022

Bachelor of Technology in Computer Science — CGPA: 8.0 / 10.0

Amritsar, India

AWARDS & RECOGNITION

Pinnacle Performer, Amdocs – Feb 2026 | **Employee of the Month**, Amdocs – Feb 2025 & Feb 2026

Placement Head, Guru Nanak Dev University | **Winner**, Google Workshop competition