

Khairul Anwar

Backend & integration engineer

Kuala Lumpur, Malaysia

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Software engineer with 6+ years building Java and WSO2 integrations for telecom operators. Owns APIs between CRM and ordering systems and downstream provisioning platforms. Also builds macOS authentication tools, develops coding-agent workflows and contributes to open-source LLM provider integrations.

Experience

Software Engineer

Jan 2020 – Present

Nokia · Kuala Lumpur, Malaysia

Own the integration layer connecting telecom operators' northbound CRM, ordering and sales systems to Nokia FlowOne (orchestration, provisioning and activation) and network elements. Deliver Java/WSO2 services and releases across 10+ customer environments in APAC and EMEA.

- Diagnosed and corrected a preproduction service-qualification regression using AI-assisted log and code analysis; restored HTTP status handling and coordinated a successful customer UAT retest.
- Preserved existing OAuth tokens during refresh through overlapping validity periods and database changes; verified token validity and expiry through endpoint smoke tests.
- Separated notification polling from outbound calls using bounded asynchronous Java worker queues, with controls for retries, duplicate in-flight work and runtime handover.
- Built and published a release candidate containing four packages using Maven, Jenkins and Artifactory, with configurable Basic/OAuth authentication; verified both modes and order callbacks in a lab.
- Led migrations from WSO2 ESB to WSO2 Micro Integrator, refactoring configurations and XSLT transformations and preparing release bundles, rollback plans and cutover runbooks.
- Mentored junior engineers and interns; established code review practices and wrote onboarding guides for TMF-API and WSO2 projects.

Software Engineer Intern

Jun 2019 – Dec 2019

Nokia · Kuala Lumpur, Malaysia

- Prototyped WSO2/Java integrations; contributed build tests, deployment scripts and handover guides.

Technical skills

AI tooling	LLM integration, agent orchestration, prompt/context engineering, evaluations
Languages	Java, SQL, TypeScript, Swift, Python, Bash
Backend	REST/SOAP, OAuth 2.0, JDBC, PostgreSQL, Oracle
Integration	WSO2 Micro Integrator, WSO2 ESB, FlowOne, TMF APIs, XML/XSLT, JSON
Delivery	Git, Maven, Jenkins, GitLab CI, GitHub Actions, Artifactory, Docker, OpenShift
Systems	Linux/RHEL, macOS, GPG/PAM integration

Selected projects & open-source work

AI development harness

Private personal project · OpenCode, Codex

- Built a multi-agent development harness with GPT model routing, specialist workflows, scoped tool permissions, reusable skills and context handoffs.
- Implemented automated checks and behavioral evaluations for routing, tool use and context continuity; applied the workflow to unfamiliar codebases and service troubleshooting.

AuthCompanion

Swift · macOS · OpenAI Build Week 2026 participant

- Created and released AuthCompanion as part of a suite of three Swift tools enabling Touch ID and Apple Watch approval for GPG signing and sudo.
- Built inspectable setup and state-restoration workflows; maintained the GPG/PAM companion forks with versioned JSON interfaces and automated release checks for Apple Silicon and Intel Macs.

[Source and documentation](#) · [Published release](#) · [Build Week submission](#)

LLM provider integrations

Merged upstream contributions · TypeScript

- Contributed merged TypeScript improvements to LLM provider adapters: bounded workers, retryable HTTP 503 responses and isolated callback failures, with regression tests and release checks.
- Completed an OAuth plugin migration and implemented account-aware model routing in a separate adapter; added concurrency, lifecycle and package installation tests.

[Worker reliability PR](#) · [OAuth lifecycle PR](#) · [Model discovery PR](#)

Education

Bachelor of Science in Information Technology

Sep 2015 – May 2019

International Islamic University Malaysia (IIUM)

Community & charity work

Co-organised independent charity projects funding multiple water wells in Tanzania and Malawi, and delivering food aid in Nepal, Sri Lanka, Cambodia and Thailand.

Languages

English · Malay