

Idris Attar

Software Engineer
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Summary

Senior engineer with six years turning slow, monolithic codebases into modular, high-performance platforms. Scaled a green-field point-of-sale system from zero to 5,000 daily transactions, cut monthly Firestore reads from 1.4 million to 490 thousand (sixty-five percent reduction) by adding Redis caching, and trimmed mobile CI build times from fifteen to five minutes. Comfortable from Flutter pixel-perfect UIs to Terraform-managed AWS infrastructure.

Experience

LayopaySeptember 2023 - March 2025
Senior Software EngineerRemote

- https://layopay.com
- Architected a cross-platform payments and POS ecosystem (Flutter, Firebase) that now processes more than 5,000 transactions per day across 300 merchants.
 - Built a universal printer driver (Dart FFI, ESC/POS) supporting Sunmi, Star, Landi and Saturn devices; adding a new printer now takes four days instead of eight.
 - Unified Rapyd, PAX, Sunmi and TidyPay behind a plug-in payment gateway, cutting integration maintenance by ninety-five percent.
 - Deployed Redis read-through cache that dropped Firestore reads by sixty-five percent and halved app load time.
 - Rolled out Datadog APM with custom service-level dashboards; mean time to resolve incidents dropped by half.
 - Migrated CI pipelines to GitHub Actions (mobile) and Azure Pipelines (back end) with full automated test coverage and daily releases.

NeosoftSeptember 2022 - August 2023
Software EngineerPune

- https://www.neosofttech.com/
- Rescued a stalled React Native home-services app (HomeServ) and delivered a customer-ready MVP four months early by leading a three-developer squad.
 - Introduced a shared Storybook design system that cut UI regressions by forty percent and reduced new-hire ramp-up by one week.
 - Built a Microsoft Intune bridge for zero-touch deployment to more than 15,000 enterprise Android devices.
 - Automated AWS infrastructure with Terraform (spot fleets, S3 lifecycle policies) lowering monthly operating costs by thirty percent.
 - Mentored six junior engineers on Clean Architecture and performance profiling; four earned promotions within a year.

CreativityITNovember 2018 - November 2021
Software EngineerKuwait

- https://creativity.com.kw
- Redesigned and shipped a mobile-first e-commerce suite (Ionic 5, Angular 12) that reached 50,000 monthly active users within six months.
 - Created a Storybook-driven component library that made it incredibly easy for developers to discover, use, and understand existing UI components, reducing duplicate efforts.
 - Conducted UX research and WCAG audits, raising Lighthouse accessibility score from 71 to 96.
 - Owned full software life cycle from Figma prototypes to production deployments while coordinating QA and DevOps.

Education

Pacific University2016
Computer Science EngineeringDiploma

Projects

Generative UI Builder

1. Built a generative UI system using **BAML** to dynamically generate React components based on user prompts.
2. Structured all reusable UI components into a modular system, enabling real-time layout and interface generation.
3. Integrated BAML prompt orchestration with component metadata and props binding for context-aware rendering.
4. Designed the architecture for extensibility, supporting multiple frontend frameworks (React, Flutter, etc.) in future phases.

River

1. Engineered a journaling system with markdown-first design and LLM-based emotion insight
2. Embedded BAML prompt scripting and BYOK logic for ethical AI workflows
3. Implemented encrypted, local-first storage architecture with user-controlled deletion workflows compliant with GDPR standards

Journaling System, Markdown, LLM, Emotion Insight, BAML, Prompt Scripting, BYOK, Ethical AI, Encrypted Storage, Local-First Storage, User-Controlled Deletion, GDPR Compliance

AWS, AWS EC2, AWS Lambda, AWS S3, AWS CloudFront, AWS Route 53, Terraform, Docker, Redis, Redis read-through cache, Firebase, Firestore, CI/CD, GitHub Actions, Azure Pipelines, Datadog APM, Flutter, Dart, React, React Native, Node.js, Ionic, Angular, Storybook, Design system, UX research, WCAG, Lighthouse accessibility, Clean Architecture, Microservices, Serverless, Event-driven architecture, Modularization, Performance optimization, Caching, Cross-platform development, Universal printer driver, ESC/POS, Dart FFI, Sunmi, Star, Landi, Saturn printers, Payment gateway, Rapyd, PAX, TidyPay, POS systems, Real-time ordering, Microsoft Intune, Zero-touch deployment, AWS spot fleets, S3 lifecycle policies, DevOps, Infrastructure as Code, Datadog dashboards, Mobile CI builds, Mentoring, Leadership, Generative UI, BAML, Large Language Models, Prompt engineering, Markdown-first design, BYOK architecture, GDPR compliance, Encrypted local-first storage, Emotion insight, Journaling apps, Remote work, SaaS scaling, FinOps