

Abdullah Amir

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Profile

“Highly analytical Backend Software Engineer with a proven track record of translating complex, multi-layered business mathematics into production-ready relational and serverless microservices. Experienced in reverse-engineering legacy logic, designing event-driven automation engines, and optimizing data flow structures for enterprise-scale platforms. Deeply grounded in computer science fundamentals, data structures, and advanced object-oriented programming, with a specialized focus on building lightweight, zero-dependency probabilistic frameworks for runtime decision-making. Demands rigorous architectural standards, strict data isolation boundaries, and backward-compatible system evolution within structured corporate engineering environments.”

Education

IQRA University, Main Campus – Karachi

- Bachelor of Engineering in Software Engineering (BE-SE) 2022 – 2026
- **CGPA:** 3.66/4.0
- **Relevant Courses:** Data Structures, Algorithms, DBMS, OOP (Java), Java Development

Govt. Degree College – Karachi

- Intermediate (Pre-Engineering) 2020 – 2022

Experience

Nftcipher — Karachi, Pakistan | Full Stack Engineer Intern

Sep 2025 – Present

- **Engineering Evolution & Adaptability:** Initiated role executing core full-stack tasks and modular feature updates. Rapidly transitioned into full software product ownership and system architecture design after demonstrating deep technical problem-solving capabilities for high-complexity engineering challenges.
- **Microservices Design & Ideation:** Formulated and advocated the high-level architecture to decouple core business logic into isolated microservices. Successfully rejected restrictive "black-box" machine learning wrappers in favor of transparent, algorithm-driven pipelines to guarantee absolute computational precision, system auditability, and client transparency.
- **Technical Consultation & Cross-Functional Leadership:** Led direct technical consultation workshops with international clients to translate layered business mathematics into software blueprints, while simultaneously directing onboarding sessions and codebase walkthroughs for co-developers to ensure zero-friction API integration across core subsystems.
- **Production Environment Lifecycle Management:** Spearheaded the live deployment pipeline, environment configurations, and production server setup on host environments via cPanel. Took absolute ownership of runtime performance monitoring, hotfixes, and continuous code maintenance.
- **Tools Used:** Node.js, Express.js, MySQL, REST APIs, JavaScript (ES6), firebase, Git, cPanel.

Projects

Premium Chauffeur Pricing Engine | *Nftcipher*

- Architected and engineered a comprehensive, data-driven computation engine to translate unstructured business pricing spreadsheets into clean, non-linear relational tables.
- Designed a unified runtime switching controller that dynamically intercepts and evaluates incoming booking API requests, routing calculation pipelines between dual core calculation layers (Peak vs. Off-Peak) while maintaining completely identical, immutable client-facing endpoint signatures.
- Engineered an advanced calendar routing module to validate intricate peak time schedules crossing overnight multi-day boundaries, programming strict state-machine controls to enforce clean window teardowns and prevent overlapping pattern collisions.
- Enforced a clean separation of concerns by dedicating isolated logical modules for corporate vehicle tiers (Sedan, SUV, First Class, Sprinter) while structured a dynamic, database-driven schema to automatically compute base rates, multi-layered surcharges, and localized 13% tax variables without logic hardcoding or relying on heavy machine learning black-boxes.
- Tools Used: Node.js, Express.js, MySQL, REST APIs, Live Production cPanel Hosting.

Auto Apply Pro (AAP) | *Personal*

- Engineered a cross-platform full-stack job automation system utilizing a modular client-server architecture exposed via secure RESTful APIs.
- Developed a custom multi-factor weighted matching algorithm to dynamically cross-reference user CV matrices with real-time job specifications based on skills, education, and geographic preferences.
- Implemented an automated application pipeline gated by user-controlled subscription states and synchronous profile completeness lifecycle validations.
- Structured optimized relational database workflows in MySQL with transactional integrity rules to eliminate duplicate application states and preserve data alignment.
- Designed an employer-facing management portal with a nested, card-based UI layout for real-time tracking, job posting configurations, and applicant routing.
- Tools Used: Node.js, Express.js, MySQL, JavaScript (ES6), REST APIs, HTML, CSS.

Extreme AI Probabilistic Framework | *Academic*

- Formulated and developed an online, adaptive learning probabilistic framework in vanilla ES6 JavaScript to challenge the reliance on heavy, high-overhead Python-based machine learning infrastructures.
- Engineered a lightweight, linear-time $O(N)$ dual-history state tracking architecture that dynamically pairs long-term baseline behavioral frequencies with short-term sliding trend windows to capture real-time pattern shifts.
- Implemented a zero-dependency statistical engine directly inside the browser application layer, validating its computational efficiency by achieving a documented 74.8% empirical success rate against unpredictable human patterns.
- Published a comprehensive algorithmic performance study detailing mathematical modeling, real-time confusion matrix statistics, and predictable sequence destruction vectors.
- Tools Used: Native JavaScript (ES6), HTML5, CSS3, Statistical Data Modeling, Client-Side Runtime Engines.

Mini Finance Manager | *Nftcipher*

- Engineered a client-facing, real-time multi-tenant ledger application featuring isolated transactional data streams and synchronous peer-to-peer data synchronization.
- Designed modular formatting pipelines to aggregate multi-month ledger entries, dynamically converting raw database objects into structured, downloadable financial PDF statement sheets.
- Integrated third-party currency API gateways to parse live exchange variables (e.g., SAR to PKR), ensuring real-time valuation updates without runtime computational latency.
- Tools Used: JavaScript (ES6), Firebase Realtime Database, PDFKit, HTML5, CSS3.

JavaFX Desktop Application | *Academic*

- Designed and built standalone desktop application modules utilizing clean object-oriented architecture patterns (Inheritance, Polymorphism, Encapsulation) within a strongly-typed environment.
- Implemented custom data structure workflows, memory management routines, and search-sorting logic configurations to optimize internal runtime performance boundaries.
- Developed modular desktop graphical user interfaces (GUIs) to visualize data manipulation states and monitor underlying operational CRUD logic changes.
- Tools Used: Core Java, Advanced Java, JavaFX, Object-Oriented Design Patterns, Collections Framework.

Technologies

Languages: C/C++, Java, SQL, HTML, CSS, JavaScript, PHP

Frameworks & Libraries: Node.js, Express.js, Bootstrap, jQuery

Databases: MySQL, SQL Server

Architectural Styles & APIs: REST API, Microservices

Version Control System: Git/GitHub

Languages

English: Advanced

Urdu: Native