

AGHA IRFAN BABAR

Architect/Team-lead Senior Software Engineer / Full-Stack Engineer / Tech Lead

TECHNICAL SKILLS

Main Technical Skills	Node.js (6 yr.), Ruby (6 yr.), JavaScript (9 yr.), React (3 yr.), Angular (5 yr.)
AI Tools & Assistants	Cursor
Programming Languages	JavaScript (9 yr.), Ruby (6 yr.), TypeScript
JavaScript Frameworks	Angular (5 yr.), Express (6 yr.), Ext JS, NestJS, Node.js (6 yr.), React (3 yr.)
Mobile Frameworks and Libraries	Crashlytics (2 yr.)
JavaScript Libraries and Tools	React Native
Ruby Frameworks	Ruby on Rails (4 yr.)
PHP Frameworks	Zend (1 yr.)
Databases & Management Systems / ORM	AWS DynamoDB, FireStore (2 yr.), MongoDB (6 yr.), MySQL, PostgreSQL, SQLite
UI Frameworks, Libraries, and Browsers	Bootstrap 4, Socket.io
Cloud Platforms, Services & Computing	Heroku (4 yr.)
Amazon Web Services	AWS DynamoDB, AWS SAM
Azure Cloud Services	Microsoft Azure API
SDK / API and Integrations	Api Gateway, GraphQL, JWT, Microsoft Azure API, OAuth, RESTful API (9 yr.), Stripe, Twilio
Collaboration, Task & Issue Tracking	Atlassian Trello, Jira, Slack
Version Control	BitBucket, Github Actions
Deployment, CI/CD & Administration	CD DevOps pipelines (1 yr.), GitLab CI
Methodologies, Paradigms and Patterns	Clean Architecture
Third Party Tools / IDEs / SDK / Services	Cursor, Microsoft Visual Studio Code

Virtualization, Containers and Orchestration	Docker (4 yr.)
Mail / Network Protocols / Data transfer	JWT
Web/App Servers, Middleware	Nginx
Platforms	Okta
Other Technical Skills	Deno

WORK EXPERIENCE

Team Lead, Multi-Therapy Module and RBAC System

Duration: Feb 2024 – Jan 2025

Summary:

- Designed, developed, and deployed the multi-therapy module used by 200+ therapists
- Built a granular RBAC system with 50+ roles improving compliance by 35%
- Optimized MongoDB performance reducing query time by 40% and scaling to 2M+ records
- Architected a permission hierarchy system reducing access issues by 25%
- Integrated ESLint & Husky hooks raising code quality compliance to 95%
- Configured MongoDB replica sets for high availability and improved scalability by distributing read operations across replicas
- Enhanced leadership and communication skills by actively engaging with product owners to discuss features and identify risks
- The ERM solution built on Node
- js, Angular, MongoDB, and Heroku

Responsibilities: Architected and implemented a robust permission hierarchy system where roles act as wrappers and permissions control internal access. Integrated ESLint and configured Husky pre-commit hooks to ensure code quality and consistency. Configured MongoDB replica sets for high availability and scalability. Engaged with product owners for feature discussions and risk identification.

Technologies: Node.js, Angular, MongoDB, Heroku, ESLint, Husky
Principal Software Engineer, Unpakt Project

Duration: May 2022 – Sep 2023

Summary:

- Maintained CI/CD pipelines cutting deployment time from 45 to 15 minutes
- Delivered 20+ feature updates improving customer satisfaction by 18%
- Standardized deployment documentation reducing onboarding time by 30%
- Built Node
- js middleware supporting 10K+ daily SSO logins
- Created npm theme packages improving UI consistency across 3 platforms



Responsibilities: Standardized the CI/CD process reducing deployment time by ~30%.
Delivered modular, reusable authentication packages to improve maintainability and onboarding speed.

Technologies: Node.js, CI/CD, npm

Team Lead, Cybersecurity Features and Microlith System

Duration: Jul 2018 – Aug 2022

Summary:

- Led a cross-functional team of 15 engineers delivering 10+ cybersecurity features
- Developed advanced data visualizations for 500+ enterprise users
- Architected microlith system improving scalability by 40%
- Managed AWS infra handling 50K+ monthly transactions
- Upgraded Ruby/Rails versions and containerized via Docker reducing downtime by 90%
- Successfully revived a failing project, improving team performance and increasing staff count from 8 to 15 and boosting delivery velocity by 50%
- Designed and launched the first Microlith architecture project at Txxel, later adopted as a national evaluation platform by the Australian Union

Responsibilities: Led the engineering team and project management efforts. Designed and implemented microlith architecture. Managed AWS infrastructure and deployment.

Upgraded Ruby/Rails versions and containerized applications.

Technologies: Ruby on Rails, Docker, AWS (EC2, S3, Load Balancer), Microlith architecture
Senior Software Engineer, Background Workers and REST APIs

Duration: Sep 2016 – May 2018

Summary:

- Refactored logic with background workers improving processing speed by 35%
- Automated report generation reducing manual work by 70%
- Developed REST APIs handling 1K+ daily transactions
- Led a small development team across projects, ensuring timely delivery and code quality

Responsibilities: Led development team efforts. Implemented background processing and automated reporting. Developed and maintained RESTful APIs.

Technologies: JavaScript, REST APIs, Background Workers
Developer, Whitelist Recipient Ruby Gem

Duration: May 2023

Summary:

- Ruby gem restricting outgoing emails
- prevented 100% of misrouted staging emails



Responsibilities: Developed and maintained Ruby gem for email restriction.

Technologies: Ruby

Developer, Hit Click Counter Mobile App

DURATION: JUL 2023

SUMMARY: MOBILE APP WITH 500+ DOWNLOADS FOR ACTIVITY TRACKING.

RESPONSIBILITIES: DESIGNED, DEVELOPED, AND DEPLOYED A MOBILE APP FOR ACTIVITY TRACKING.

TECHNOLOGIES: IONIC, ANGULAR, NODE.JS, FIREBASE (FIRESTORE, FUNCTIONS, ANALYTICS, CRASHLYTICS, DYNAMIC LINKS)

EDUCATION

- **Bachelor of Computer Science**

VU- Virtual University of Pakistan

2012 – 2016

