RAHUL K JHA

BACKEND DEVELOPER

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Hyderabad

About Me

With 10+ Years of experience, a passionate backend developer having expertise in developing web applications in multiple programming languages including but not limited to TypeScript, Java & PHP. Interested in Web Security, System Design, and Scaling applications to handle a large number of concurrent users & possess a good understanding of Data Structures, Object Oriented Design, RDBMS, NoSQL & Distributed Systems

Experience

Medtronic India (03/2024 - Current)

Senior Software Engineer

1. **Cloud Native Patient Management Platform**

- Architected a scalable microservices platform using REST APIs and event-driven communication
- Built domain-driven services for DICOM ingestion, case and plan lifecycles, user identity, and audit logging
- Created metadata extraction pipelines to process and store structured data from large image files
- Optimized PostgreSQL schemas, queries, and indexes for high-throughput workloads
- Implemented secure RBAC aligned with organizational security policies
- Orchestrated async workflows with AWS SNS for cross-service communication
- Applied RxJS to improve data flow control and responsiveness
- Integrated Elasticsearch and Kibana for logging, tracing, and performance insights
- Partnered with cross-functional teams on API contracts, error handling, and retry strategies
- Drove reliability and scalability through cloud-native patterns on AWS

Technologies: NestJS, RxJS, Typescript, Jest, GraphQl PostgreSql, Redis, OpenSearch, Logstash, Docker, K8S, DynamoDb, Kibana, AWS (Cognito, RDS, SQS, S3, SES, SNS, Bedrock, ECR, ECS, Cloudwatch)

2. **Mobile App Middleware Service**

- Built a GraphQL middleware layer to aggregate data from multiple systems for the mobile app
- Designed schemas and resolvers for flexible queries with minimal over-fetching
- Implemented transformation and stitching across REST and database sources
- Improved performance via async processing and connection pooling in Spring Boot
- Deployed on AWS with logging and monitoring in collaboration with mobile teams

Technologies: SpringBoot 3, Java, Junit, GraphQl, Redis, Docker, AWS Cognito, OAuth

Borzo India (09/2023 - 11/2023)

Senior Backend Developer

1. Delivery Platform

- Contributed to finance R&D features for transaction and payment processing
- Assisted with codebase and documentation migration to English

Technologies: PHP 8, Symfony, PHPUnit, MySql, Redis, ElasticSearch, Logstash, Docker, K8S, RabbitMQ, ClickHouse, Grafana

Darwinbox (03/2023 - 08/2023)

SDE - III

1. Main Product

- Built a multi-language support framework adopted across modules
- Led admin-managed notification channels with user preferences (Email, Mobile Push, SMS, Teams, WhatsApp, Web Push)
- Resolved caching performance bottlenecks, improving retrieval latency and UX
- Contributed to the 7-member Payroll team on new features and bug fixes

Technologies: PHP 8, Symfony, NodeJS, MongoDB, MySql, Redis, ElasticSearch, Docker, K8S, RabbitMQ

ACS Solutions (04/2018 - 03/2023)

Principal Software Engineer

1. Cannabis Potency Testing web app for a US based client

- Led a team of 7 to build a SaaS application streamlining cannabis potency testing
- Partnered with clients to refine requirements and deliver an optimized feature set
- Supported DevOps on infrastructure setup and scaling for production reliability
- Implemented automated API tests with Postman to reduce test time and speed releases

Technologies: PHP 8, Laravel 9, VueJS, MySql, Redis, Docker, AWS, RabbitMQ

2. Business Research & Analysis Data Management App for a US based client

- Led a team of 10 to build and expand a REST API for research and analysis data management
- Improved average response time by 150% for web and mobile clients
- Implemented auto-scaling to handle sudden traffic spikes
- Added caching and load balancing across application and data layers to reduce load and cost
- Strengthened security with JWT authentication and 2FA
- Built full-text search with Elasticsearch for faster, more accurate results
- Integrated Azure AD SSO for enterprise login flows
- Instrumented GA4 tracking and dashboards to surface product insights
- Built a Jenkins-based CI/CD pipeline for automated deployments

Technologies: NodeJs, ExpressJS, VueJS, Java, MySql, Redis, RabbitMQ, Google BigQuery, ElasticSearch, Docker, K8S, AWS

3. E-Commerce Application for a US based medical organisation

- Added a fallback payment gateway to improve transaction reliability
- Implemented scaling strategies to support 3M monthly visitors
- Migrated on-prem hosting to cloud infrastructure
- Established Kubernetes and Docker hosting with automated scaling
- Improved page load time by 500% using Fastly/Varnish and added security hardening

Technologies: PHP 7, Laravel 8, JavaScript, MySql, Redis, RabbitMQ, Fastly, ElasticSearch, Docker, K8S

Meltag Inc (01/2017 - 03/2018)

Senior Software Engineer

1. Campaign & Loyalty Management Application

- Built REST APIs for a campaign management platform across web, mobile, and SMS
- Reduced infrastructure cost by 20% through app and infra optimizations
- Improved API response time by 30% via targeted code improvements

Technologies: PHP 7, Laravel 5.5, VueJS, MySql, Redis, AWS SQS

Tattvam Media (06/2015 - 12/2016)

Software Engineer

1. Digital Media Marketing Engagement Analytics Application

- Led a team of 4 to build a marketing analytics platform from scratch, aggregating data from Google Adwords and Facebook Marketing with dashboards for insights
- Partnered with the marketing team to refine requirements and deliver new features
- Set up and managed cloud hosting

Technologies: PHP 7, VueJS MySql, Redis, AWS

Open Source Contributions

Sentry Integration For Magento

Added New Feature

- Added a new feature that has let users enable or disable the integration on demand
  Pull Request Link: https://github.com/justbetter/magento2-sentry/pull/59

- Fixed a very critical bug for Native Azure Mailer Bridge for Symfony Framework
  Pull Request Link: https://github.com/symfony/symfony/pull/53388

Hackathon (2019)

Dobby Chat Bot

A Chat Bot for newly joined employees

- Developed a Teams bot that can answer the question regarding the organization's structure, people & process for newly joined employees. Technology included Python & Google Dialogflow

Area of interest

- Web Security
- REST API Design
- Distributed Computing

Education

2015
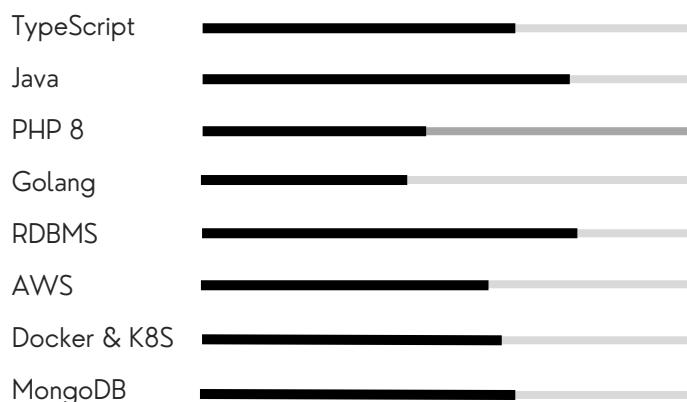
RTU Kota

BTech in Computer Science & Engineering

Certification

Programming with Google Go
Coursera

- A Golang course taught by Ian Harris (University of California Irvine)
  Certification Link: https://coursera.org/verify/specialization/EKYKE8T3QKFL

Technology & Expertise

TypeScript

Java

PHP 8

Golang

RDBMS

AWS

Docker & K8S

MongoDB

Web Presense

Github
https://github.com/t9toqwerty

Website
https://rahulkjha.com

Linkedin
https://www.linkedin.com/in/t9toqwerty/

Stackoverflow
https://stackoverflow.com/users/2668465/