# AKHIL P VIJAYAN

## SOFTWARE ENGINEER

+971 555243432        akhilpvijayan98@gmail.com        LinkedIn        GitHub

## PROFILE SUMMARY

Software Engineer with 4+ years of expertise in .NET, Angular, and SQL development specializing in microservice architectures and  AI-powered development. Proven track record in building scalable financial/payment technology solutions with strong focus on security, performance optimization, and cross-functional collaboration.

## KEY SKILLS

**Backend & Frameworks:** .NET 6/8, C#, Entity Framework Core, ASP.NET Core, Microservices Architecture

**Frontend:** Angular 16, TypeScript, HTML5, CSS3, Tailwind CSS, Angular Material

**Database:** SQL Server 2019, T-SQL, PostgreSQL, Redis, Supabase

**APIs & Integration:** REST API, SignalR, RabbitMQ, WebHooks, Swagger, Ocelot, Kong Gateway

**Authentication & Security:** Keycloak, JWT, UAE Pass Integration

**DevOps & Tools:** Docker, GitLab CI/CD, Git, Bitbucket

**Payment Gateways:** PayU, Muscat Bank, HDFC Bank

**Additional:** iTextSharp, Serilog, Jira, Canva, Figma, Confluence, Postman, Fiddler, FluentValidation

## WORK EXPERIENCE

### Software Developer
**OMA Emirates Group**

*Jan 2025- Present*
*Sharjah,UAE*

- Developed **DONE.AE**, a digital signing platform for banks, hotels replaces their old manual document process .
- Split the system into separate **microservices** for authentication, document handling, signing, and notifications.
- Integrated **UAE Pass** so customers can sign in and sign documents using their government digital ID.
- Implemented **RabbitMQ** for async processing - emails, notifications.
- Built **Redis** based OTP verification for document signing, generates 6-digit codes with 5-minute expiration stored in Redis with TTL..
- Used Redis for caching user sessions, document metadata, and frequently accessed data to reduce database load.
- Built features to share documents via email links and QR codes, with tracking to see who opened and signed what
- Added real-time notifications with **SignalR** so users get instant updates when documents need signing or are completed.
- Created the frontend in Angular and Tailwind CSS with mobile responsiveness.
- Set up comprehensive audit logging using **Serilog**, captures all document actions, user activities, and system events stored in separate audit database using custom nuget packages.
- Used AI tools like **Claude** for debugging and generating boilerplate code helped move faster on repetitive tasks.
- Used tools like **Stitch AI** to generate UI designs for reference.
- Created shared **NuGet** packages for common functionality like exception handling, validation with FluentValidation, and logging, keeps code consistent across all microservices.
- Built an **Open Banking API** platform with .NET 8 microservices, developed RESTful APIs that let approved third-party apps access customer account data securely.
- Built endpoints for account balances, transactions, and account details with **FluentValidation** for request validation
- Set up **Keycloak** to handle user login and make sure only authorized apps can access the APIs
- Developed sandbox environment with mock data in Docker containers so third-party developers can test integrations without touching production.
- Built GitLab **CI/CD** pipelines using .gitlab-ci.yml, runs unit tests, builds Docker images, pushes to container registry, and deploys to staging/production
- Developed and maintained **Cashless Campus**, a full-stack school management system using .NET 6, Angular, and SQL Server, handles academic operations, fee management, and parent communication for multiple schools.
- Integrated **payment gateways** (PayU, Muscat Bank, HDFC) using their REST APIs and implemented payment initiation, callback handling, and status check workflows for online fee payments.

- Built real-time payment tracking using **WebHooks** and API callbacks, automated reconciliation matches payment gateway transactions with internal records in SQL Server, eliminating manual verification
- Implemented secure payment flow with encryption for sensitive data, transaction logging, and retry mechanisms for failed payments.
- Built PDF generation for hall tickets, exam schedules, and admit cards using **iTextSharp** library with school logo.
- Built automated report card generation, scheduled jobs generate PDFs for all students, send emails to parents.
- Created parent portal with email/SMS notifications for low attendance, pending fees, exam schedules, and result announcements
- Set up role-based access control, different dashboards and permissions for administrators, teachers, students, and parents

## Senior Software Engineer
**Experion Technologies**

*Sep 2021 - Sep 2024*
*Kochi, India*

- Worked as part of a 30+ member engineering team on WorldSmart, a retail management application used by 2,600+ supermarkets across Australia.
- Developed Scan 2.5 module for daily sales data integration - built scheduled jobs that extract sales transactions from POS systems and transmit to Metcash using their EDI format.
- Created stored procedures and functions in SQL Server 2019 for sales aggregation, inventory calculations, and financial reporting - optimized queries with proper indexing and execution plans.
- Designed and developed rebate management module UI using Angular where suppliers can view rebate claims, supporting documents, and payment status
- Implemented email notification system for rebate approvals and rejections with attachment support - used SMTP with templating engine for branded emails
- Migrated frontend codebase from AngularJS to Angular 16 - refactored components, converted controllers to TypeScript classes, and modernized routing
- Used Bitbucket with Git flow branching strategy - feature branches, pull requests with code reviews, and merge to develop/master branches
- Participated in Agile ceremonies - sprint planning, daily standups, sprint reviews, and retrospectives
- Promoted to Senior Software Engineer in 2023 after 2 years for consistently delivering features and mentoring junior developers
- Worked with product owner and business analysts to understand requirements, clarify user stories, and break down features into technical tasks
- Used Jira for task tracking and sprint management - estimated story points, tracked progress, and logged bugs
- Documented technical designs and API specifications in Confluence for team reference

## EDUCATION

### Bachelor of Technology

*Jun 2017 - Jul 2021*
*Kerala, India*

- Majors: Computer Science and Engineering
- Viswajyothi College of Engineering and Technology, Vazhakulam
  - Affiliated to **APJ Abdul Kalam Technological University**
  - National Board of Accreditation (NBA) Certified
- CGPA : 7.9 / 10

## CERTIFICATIONS

- **One Million Prompters** , Dubai Future Foundation
- **.Net Full Stack Developer Certification** , Infosys
- **Angular Web Developer Certification** , Infosys