

Aryan Kumar Software Engineer

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EDUCATION

Vellore Institute of Technology, B.Tech - Computer Science Engineering

07/2019 – 05/2023 | Bhopal, India

SKILLS

Programming Languages

C#, Java, JavaScript

Frameworks

Dotnet, NodeJS, ReactJS,

Databases

MySQL, CosmosDB,
MongoDB

Tools and Platforms

AWS, Azure, Git, Figma

PROFESSIONAL EXPERIENCE

TechCompiler Data Systems Pvt Ltd, Software Engineer

05/2024 – present | Noida, India

Description: Delivered end-to-end .NET solutions across 4 client projects, owning ASP.NET Core Web APIs, EF Core data models, WPF UI, deployments, and integrations on AWS/Azure.

Major Projects:

- **MIDAS** (ongoing) – Nuclear power plant dose assessment for Shin Kori: ingest effluent/radiation-monitor & meteorological data, compute Gaussian plume (X/Q), render dose contours on map, export Appendix-I style reports.
- **AE Bruggemann** (ongoing) – Trade automation portal; trades posted to CME/ICE; allocations & invoicing.
- **BigCommerce custom storefronts** – API integrations with BigCommerce GraphQL; Svelte/Handlebars themes.

Tech Stacks used: .NET 8, C#, ASP.NET Core Web API, EF Core, WPF, SQL Server/MySQL, AWS/Azure, Redis, Docker, BigCommerce GraphQL/REST, FIX engine (QuickFIX/n).

PropVivo, Fullstack Developer

03/2023 – 03/2024 | Surat

Description: Product company; scaled two in-house .NET products—PropVivo Portal (CRM & Accounting) and Notification Engine—serving 80+ associations (~2.4k users).

Projects done:

- **PropVivo Portal** – CRM + Accounting, common auth, reporting (~1.5k tx/mo, ~60% reporting time).
- **Notification Engine** – email/SMS pipeline with Azure Service Bus queues (~300k msgs/mo, 99.7% deliverability), monitoring.

Tech Stacks used: .NET / ASP.NET Core Web API, C#, EF Core, SQL Server, Cosmos DB, Azure Service Bus, React, Twilio, SendGrid, Docker, Git.

PROJECTS

MIDAS – Nuclear Power Plant Dose Assessment (Shin Kori)

04/2025

- Re-platformed legacy workflows to .NET 8 microservices with a WPF (MVVM) client for the Shin Kori nuclear power plant; delivered Accident & Routine modules aligned to 10 CFR Part 50, Appendix I.
- Modeling: Gaussian plume (X/Q) with dose contours and receptor grids; plume plotted on WPF maps.
- Data ingest: real-time meteorological towers and effluent/stack monitors; scheduled runs and drill workflows.
- Analysis: X/Q interpolation for special receptors; time-series QA (hourly/15/5-min) with bulk edits.
- Reporting: Appendix-I style PDF/CSV reports with run archive and audit.
- Tech Stack: .NET 8, WPF, ASP.NET Core MVC, EF Core (SQL Server), GIS/map overlays, Docker (on-prem/AWS).

Trade Automation Portal

01/2025 – Present

- Unified trade entry → allocations → invoicing → exchange submission → reporting into one audited portal.
- Delivered a scalable backend with 10+ APIs and core entities (Trades, Allocations, Tickets, AuditLog) supporting role-based access and caching.
- Integrated exchange submission to CME ClearPort and ICE Trade Capture with queued async flows, ~60s status polling.
- Automated ticketing/reporting: HTML→PDF, signed URLs, email alerts, daily/monthly summaries.
- Tech: .NET 8, C#, ASP.NET Core Web API, EF Core, SQL Server, React/TypeScript, Redis, Queues (RabbitMQ/SQS), Email, FIX/FIXML, CME ClearPort, ICE.

PropVivo Portal

03/2023 – 03/2024

- Consolidated homeowners-association portal and PaaS notification engine into a single platform, reducing infrastructure overhead by 50% and supporting 80+ associations (~2,400 users).
- Developed CRM, Accounting and Super-Admin modules with .NET Core Web APIs and SQL Server stored procedures, automating 1,500 monthly transactions and cutting manual reporting time by 60%.
- Engineered an Azure-hosted notification service processing 300,000 messages/month with 99.7% deliverability, leveraging Cosmos DB, Service Bus, Twilio and SendGrid.
- Optimized data flows and resilience by reducing average Cosmos DB query latency by 40% and achieving 99.95% uptime.
- Tech Stack: .NET Core Web APIs, Azure & Service Bus, Cosmos DB, SQL Stored Procedures, Twilio, SendGrid.

AWARDS AND ACHIEVEMENTS

Winner of the Rising Star of the Year 2023, PropVivo

31/12/2023

30 days of Google Cloud - Winner, Google

16/12/2020