KUMAR CHANDRACHOODA

Senior .NET & Cloud Engineer | C#, .NET on AWS and Azure | 3x AWS Certified | Azure Solutions Architect Expert
+44 7767 964982 | kumarchandrachooda@gmail.com | kumarchandrachooda.com | linkedin.com/in/kumar-chandrachooda
Right to work: UK Skilled Worker visa valid until 11 February 2027, I would need a certificate of sponsorship in future.

SUMMARY

I design and build cloud platforms and .NET services that other teams and agents can rely on. Over 8 years I've moved from ASP.NET web applications and .NET Core microservice migrations on Azure to leading C# and .NET 10 platform engineering on AWS at PebblePad.

I was lead engineer on the security first, zero trust API framework in C# and .NET 10 that every new AWS web application starts from, cutting new service setup from 3 weeks to 2 days, and led the CI/CD and plug and deploy Infrastructure as Code modules in AWS CDK now used by nearly 20 services. I introduced a .NET Valkey caching layer so the platform scales horizontally, and mentored 5 engineers and 2 apprentices along the way.

Using spec driven and multi agent workflows in Claude Code, I delivered the AWS native analytical data solution 3-5x faster than the team's previous hand built delivery. As the lead engineer and data architect, I coordinated technical work, resources and teams across the business and kept non technical stakeholders accurately informed.

EXPERIENCE

Senior Software Engineer, PebblePad Sep 2023 - Nov 2026

- Lead engineer on the security first, zero trust API framework, written in C# and .NET 10, that every new AWS web service starts from, cutting new service setup from 3 weeks to 2 days. Services run on Lambda or ECS behind API Gateway, secured with Amazon Cognito and PKCE, Lambda and JWT authorizers, WAF and KMS, and monitored through CloudTrail, GuardDuty and Security Hub.
- Architected and built the C# and .NET 10 control plane for the multi tenant analytics product, with Clean Architecture, MediatR CQRS, EF Core for writes and Dapper for reads. One EF Core migration set provisions every tenant under database, schema or shared database isolation, with NUnit tests written first for authorisation and tenant isolation.
- Built the progress tracking service in .NET as a background service and a Minimal API that serves its own OpenAPI specification.
- Introduced Valkey as the platform's distributed, multi layer, content aware cache, with the caching layer written in .NET, and standardised caching across services so the platform scales horizontally.
- Mentored 5 engineers and 2 apprentices while modernising a monolith into a .NET Core modular architecture.
- Lead implementation engineer for the CI/CD and plug and deploy Infrastructure as Code modules in AWS CDK with C#, now used by nearly 20 services. Set the build and deploy standards and put infrastructure under central human approval.
- As lead architect and tech lead, designed the analytical data product on the medallion architecture (Kinesis ingestion, AWS Glue ETL, Amazon S3 Tables on Apache Iceberg, Lake Formation row level tenant isolation, all modularised in AWS CDK), turning 100 TB+ of legacy data (RDS PostgreSQL and self hosted MongoDB) into an AWS native, AI first analytics offering under UK GDPR. Self service analytics cut dynamic report time from 3 minutes to under 30 seconds.
- Took the design through Head of Platform and InfoSec approval, trained two senior and three junior developers on it.
- Delivered the platform's GDPR controls. Tombstoning lets a person be forgotten without losing audit trails, data is masked as it is removed, and a storage limitation job on ECS Fargate removes data past its retention limit across every subsystem, an event driven compliance tool with Lambda checks and EventBridge transport.
- Led agentic development and orchestration, with tools and skills that carry the platform's infrastructure guidelines and deployment process, and multi agent workflows from specification through planning, development and testing, delivering data services 3-5x faster than the team's previous hand built delivery.

Senior Product and Platform Engineer, Accenture Jul 2021 - Aug 2022

- Architected and built microservice platforms on Azure with their data pipelines and stores, delivered through a reusable Terraform library (App Service, Functions, APIM, AKS, Cosmos DB, Event Hubs, Front Door, SQL Managed Instance) scaled to a hub and spoke model across regions and environments, with CI/CD on Azure DevOps. Achieved Azure Solutions Architect Expert and DevOps Engineer Expert here.

Senior Software Engineer, Imaginea Technologies (now part of Accenture) Dec 2017 - Jun 2021

- Modernised legacy monoliths into .NET Core microservices (APIs, data models, integrations, analytics and reporting) and mentored 11 engineers and 5 apprentices, earning MCSA Web Applications and MCSD App Builder along the way. Ranked in the top 5% of Imaginea's developers by my reporting manager, with client work that led to new business wins.

Programmer Analyst Trainee, Cognizant Feb 2017 - Nov 2017

- Built ASP.NET Web Forms and MVC applications and proofs of concept, and earned the Microsoft Technology Associate (MTA).

DATA, CLOUD & .NET PROJECT

Multi Tenant Analytical Data Platform (Architect and Developer) The analytical data product on the medallion architecture, with AWS native bronze and silver layers (Kinesis, AWS Glue (PySpark), Apache Iceberg on Amazon S3 Tables) and a gold layer on Amazon Redshift and multi tenant PostgreSQL, served through the C# API framework. Tenants are isolated by database, schema or shared database, with Lake Formation row level filtering in the lake.
Stack: C#, .NET 10, EF Core, Dapper, MediatR, PostgreSQL, Amazon Kinesis, AWS Glue, Amazon S3 Tables, AWS Lake Formation

EARLIER PROJECTS: INSURANCE AND ENTERPRISE PLATFORMS

- **Insurance document platforms (Document Generator, Smart Comm):** Solution Architect and Lead Developer. Set up the Master Data Management (MDM) and Operational Data Store (ODS) for policy document generation with InRule validation, event driven on Azure Functions, .NET 6, Terraform (Azure) and API Management.
- **Insurance quoting and agency systems (Affinity, FirstRate, Inzurezone):** Team Lead and Assistant Architect on the migration from AS400 and web forms to microservices with single sign on across platforms. Mentored the team and landed 2 large migration projects.
- **Internal platforms (Swipe-In, Employee Portfolio):** .NET Core and Angular web applications on Azure used by 2,000+ employees. Delivered the more complex modules on time.

EDUCATION

- MSc Advanced Computer Science (Cloud Computing), University of Leeds, Sep 2022 - Sep 2023, with Distinction
- B. Tech Computer Science Engineering, JSS Academy of Technical Education, 2016

CERTIFICATIONS

- AWS Certified Machine Learning Engineer - Associate, AWS Certified Data Engineer - Associate, AWS Certified Solutions Architect - Associate
- Microsoft Certified: Azure Solutions Architect Expert, DevOps Engineer Expert and Azure Developer Associate. MCSA Web Applications. MCSD App Builder (Programming in C#, Querying Data with T-SQL)

SKILLS

- **Languages & frameworks:** C#, .NET 10/8, .NET Core, .NET Framework, ASP.NET Core Web API and MVC, REST, GraphQL, WebSockets, Entity Framework Core, Dapper, MediatR (CQRS), .NET Aspire, Python, TypeScript, SQL / T-SQL, PowerShell, ASP.NET Core Minimal APIs, OpenAPI, background services, NUnit, MassTransit
- **Architecture:** microservices, modular monolith, Clean Architecture, event driven, serverless and cloud native, multi tenancy, high availability, distributed caching (Valkey / Redis), messaging (RabbitMQ, Amazon SQS)
- **AWS:** Lambda, ECS Fargate, API Gateway, SQS, EventBridge, S3, EFS, RDS, DynamoDB, Cognito, IAM, KMS, WAF, ACM, Route 53, VPC endpoints / PrivateLink, CloudTrail, GuardDuty, Security Hub, SSM Parameter Store, Secrets Manager, CloudFront
- **Azure:** App Service, Azure Functions, API Management, AKS, Event Grid, Logic Apps, Cosmos DB, Azure DevOps
- **Infrastructure, DevOps & observability:** Infrastructure as Code (Terraform, AWS CDK), reusable infrastructure modules, CI/CD pipelines (Azure DevOps, GitHub), Git, Docker, Kubernetes (AKS), OpenTelemetry, SigNoz, Serilog, Kibana
- **Security & compliance:** zero trust, security first API design, OAuth 2.0 with PKCE (Amazon Cognito), API authorizers (Lambda, JWT), encryption (KMS, TLS), IAM and secrets management, multi tenant isolation, secure single sign on, GDPR (right to erasure, tombstoning, data masking, audit trails, retention), ISO 27001
- **Data, front end & AI:** SQL Server, PostgreSQL, MongoDB, DynamoDB and Cosmos DB. React, Angular and Blazor. Claude Code, spec driven development, multi agent workflows, Amazon Bedrock, RAG, MCP servers















