

SRAVAN RAVULA

Senior Cloud Engineer | Full-Stack Developer | Generative AI & DevOps

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SUMMARY

Senior software engineer with 9 years across full-stack .NET development and multi-cloud platform engineering (Azure, AWS, GCP). At Citrix, I build FedRAMP High-compliant cloud infrastructure, cut costs through C#/PowerShell automation, and apply LLMs to security and operations workflows. I ship production systems end to end — from .NET and React apps to AI features built on embeddings, vector search, and LLM integration — and have solo-built two live apps, including Byte AI (50+ daily users), and co-founded TrueSpend.

EXPERIENCE

Senior Cloud Development Engineer

Oct 2025 – Present

Citrix

Fort Lauderdale, FL

- Engineer and manage multi-cloud infrastructure across Azure, AWS, and GCP for FedRAMP High-compliant systems, owning platform reliability for cross-functional teams.
- Drove cloud cost optimization by migrating workloads from VMs to Kubernetes, reducing cloud spend by ~\$25K/year.
- Automated Azure Policy enforcement and recurring infrastructure operations with C# and PowerShell, cutting manual intervention by more than 90%.
- Helped the team achieve FedRAMP High authorization through security hardening and compliance automation.
- Re-architected Splunk telemetry from pull-based to push-based ingestion (Splunk Cloud via HEC tokens), reducing operational overhead.
- Built a C# tool that uses Azure OpenAI to triage security vulnerabilities — identifying issues, determining the owning team, and automatically creating and assigning Jira tickets.
- Integrated Azure OpenAI summarization into operations workflows to condense incident logs and generate alert explanations, accelerating incident response.
- Carry on-call rotation; diagnose and resolve production incidents and unblock the team.

Senior Full-Stack .NET Web Developer

Jan 2018 – Sep 2025

UPMC Health Plan

Pittsburgh, PA

- Implemented scalable back-end logic and RESTful APIs using C#, .NET 8, and ASP.NET Core for high-performance web applications.
- Integrated Azure OpenAI to enable natural-language queries and generate actionable workflows.
- Led migration of poorly performing on-prem search to Azure AI Search, improving search performance by more than 100%.
- Built dynamic, responsive front-ends with Angular and React, managing application state effectively with Redux.
- Integrated Redis caching and async messaging (NServiceBus over RabbitMQ and MSMQ) for reliable, high-throughput communication.
- Designed and managed data storage across SQL Server and Azure Cosmos DB, optimizing queries and schema design.
- Implemented CI/CD pipelines in Azure DevOps (YAML) and deployed via Azure App Service, reducing deployment time by 40%.
- Deployed Solr Cloud distributed search on Red Hat OpenShift with Docker; designed microservices on a multi-client SaaS architecture.

Full-Stack .NET Web Developer

Jan 2017 – Dec 2017

Accenture

Washington, DC

- Developed distributed services using WCF (SOAP) for reliable client-server communication and seamless data exchange.
- Built rich desktop applications with WPF using the MVVM architecture for clear separation of concerns and maintainability.
- Enhanced front-end interactivity with jQuery (DOM manipulation, AJAX) and integrated InRule for dynamic business-rule management.
- Optimized SQL Server queries and stored procedures, improving performance by 75%.

PROJECTS

Byte AI — Tech-focused social platform (iOS & Web, ~50 daily active users)

byteaiofficial.com · [App Store](#)

- Built and shipped a full social platform end to end: .NET 9 API, Next.js / React web, native SwiftUI iOS, PostgreSQL/Supabase, SignalR real-time chat, and APNs push notifications.
- Engineered hybrid semantic search combining self-hosted ONNX embeddings (nomic-embed-text, pgvector) with PostgreSQL full-text search, fused via Reciprocal Rank Fusion.
- Built a personalized "For You" feed that ranks content by cosine similarity to per-user interest embeddings.
- Integrated Google Gemini for automatic content tagging, quality scoring, and a two-layer content-moderation pipeline.
- Deployed on Azure with blue-green releases and multi-platform CI/CD (GitHub Actions: .NET, Vercel web, iOS TestFlight).

Infinity Finances — FIRE & retirement planning web app (live)

firecalculator-app.vercel.app

- Built a multi-calculator financial-independence platform (Next.js / React, Hono API, Supabase) with a month-by-month portfolio simulation engine featuring Monte Carlo analysis and tax-optimized withdrawal sequencing.
- Integrated Google Gemini for conversational data entry — structured extraction of planning inputs from natural language.

- Building a React Native + Expo app with a .NET 9 backend that recommends the optimal rewards card on arrival at a merchant using background geolocation (iOS CLVisit / Android fused location).
- Integrated Plaid (transactions), Stripe (3-tier billing and entitlements), and Azure OpenAI (nightly reward-optimization insights); deployed on Azure Container Apps with Terraform IaC.

SKILLS

Languages & Frameworks	C#, .NET 8 / 9, ASP.NET Core, MVC, Web API, Entity Framework, MediatR, FluentValidation, WCF, WPF, MVVM, TypeScript, Node.js, Swift
Frontend & Mobile	React, Next.js, Angular, Redux, Tailwind CSS, React Native, Expo, SwiftUI, Zustand, React Query
Cloud & DevOps	Azure (Functions, App Service, Container Apps, Service Bus, Key Vault), AWS, GCP, Azure DevOps, CI/CD (YAML), Docker, Kubernetes, AKS, OpenShift, Terraform, Git, GitHub Actions, PowerShell, FedRAMP High, SRE & reliability, observability (Application Insights, AppDynamics, Sentry, Serilog)
AI & Search	Generative AI (GenAI), Azure OpenAI, LLM integration, prompt engineering, Claude, Gemini, embeddings, vector search (pgvector), semantic & hybrid search, ONNX, Azure AI Search, Solr
Data & Messaging	SQL Server, PostgreSQL, Supabase, Azure Cosmos DB, Redis, NServiceBus, RabbitMQ, MSMQ, Splunk, HL7
Integrations & Practices	Plaid, Stripe, Jira, push notifications (APNs / FCM), Microservices, REST, SOAP, OAuth / OIDC, SignalR, SaaS, unit testing (xUnit, Vitest, Playwright), TDD, Agile, Scrum, SAFe

EDUCATION

M.S., Electrical Engineering — [University of Missouri–Kansas City](#)

Aug 2015 – Dec 2016

B.S., Electronics Engineering — [KL University](#)

2011 – 2015