

# Bistro Kaspar

## Senior Software Engineer & AI Engineer • Full-Stack, LLM & RAG Systems

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### SUMMARY

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Senior full-stack software engineer with 13+ years shipping production web, mobile, and cloud applications for government (Nevada NCCIS, Nebraska Crime Commission) and healthcare (Mayo Clinic) clients. Core stack: **C# / .NET (ASP.NET Core, Web API, MVC), Angular, Node.js**, and **MS SQL Server**, deployed on **Azure** with end-to-end CI/CD. Increasingly focused on **AI/LLM integration** — building RAG pipelines, agentic workflows, and conversational AI features with the OpenAI and Anthropic (Claude) APIs into real, shipped products. Delivers the full lifecycle: system design, secure API architecture, cloud deployment, and App Store publication.

### TECHNICAL SKILLS

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**Languages:** C#, TypeScript, JavaScript, Python, Swift, SQL

**Backend:** ASP.NET Core, ASP.NET MVC, Web API, Node.js, Express, FastAPI

**Frontend:** Angular, React, Vue.js, Bootstrap, SASS, HTML5/CSS3

**AI / LLM:** LLM integration (OpenAI GPT, Anthropic Claude API, Azure OpenAI), RAG (retrieval-augmented generation), embeddings & vector search, semantic retrieval, Whisper, LangChain, agentic workflows, prompt engineering, AI safety guardrails, local LLMs (Llama, DeepSeek)

**Cloud / DevOps:** Azure (App Service, Functions, SQL, AD, Key Vault, Search), AWS, Firebase, Azure DevOps CI/CD, Git, Agile/Scrum

**Data:** SQL Server, MongoDB, Firestore, Oracle, Cassandra, Elasticsearch

**Mobile:** Swift (iOS), SwiftUI, SwiftData, React Native / Expo, Xamarin, App Store & Google Play publishing

### PROFESSIONAL EXPERIENCE

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#### Senior Software Engineer

May 2020 – Present

**Innova Solutions** (formerly American Cyber Systems) • Client: Nevada NCCIS / Unisys

- Architected and led development of the NCCIS Public Search Portal & Admin Panel, a secure bilingual platform used by 40+ Nevada law enforcement agencies for real-time offender/victim search, serving thousands of public searches per month
- Engineered a granular role-based access control system with certificate-based auth and Azure AD, provisioning multi-agency users across isolated Azure-hosted databases
- Built real-time dynamic search across multiple backend data sources with flexible schemas and integrated Mapbox for geospatial filtering, delivering sub-second results across millions of records
- Designed a scalable Admin API layer with comprehensive audit logging and multi-role enforcement powering internal and external integrations
- Established end-to-end CI/CD on Azure DevOps with automated staging and production pipelines, cutting release cycles from days to under an hour

**Tech:** Angular, ASP.NET Web API, C#, SQL Server, Azure AD, Azure DevOps, Mapbox, Umbraco CMS, certificate-based auth

## Programmer Analyst

2020 – 2021

**Innova Solutions** • Client: Nebraska Crime Commission / Unisys

- Designed and built a secure bilingual Victim Notification System (public portal + admin backend) letting citizens search offender data and receive real-time email/SMS case alerts
- Built a responsive Angular UI with i18n support and secure REST APIs using role-based and certificate-based authentication
- Implemented the full audit logging, notification engine, and database schema from the ground up, delivered on schedule and deployed to production statewide

**Tech:** Angular, ASP.NET Web API, TypeScript, SQL Server, Azure, Bootstrap

## Programmer Analyst

Mar 2017 – May 2020

**Innova Solutions / AIC** • Client: Mayo Clinic — Enterprise Healthcare Platforms

- **DevOps Metrics Dashboard:** Led migration from TFS to Azure DevOps Server and built an analytics platform aggregating builds, releases, and work items into interactive reports, giving leadership real-time visibility across 20+ teams
- **GeneGuide (FDA-cleared genomics):** Supported Mayo Clinic's genomic variant testing application (Health Traits, Carrier Screening, Medication Response, Disease Risk); designed test strategies and executed regression suites
- **Real-Time Content Delivery API:** Built an Azure-hosted API serving search-filtered healthcare content in XML/JSON; tuned with Azure Search and SQL optimization to cut average response time by ~40%; instrumented with Dynatrace and Splunk
- Architected ASP.NET MVC content-management tools with Azure Search integration and SonarQube quality gates; migrated legacy JavaScript frontends to Angular component architecture

**Tech:** Angular, ASP.NET MVC/Web API, C#, Node.js, MongoDB, SQL Server, Azure Search, Dynatrace, Splunk

## Programmer Analyst

Jun 2016 – Feb 2017

**Lorshi System LLC** • Client: Mayo Clinic — Medical Applications

- Enhanced legacy medical applications (PF, SPEL, ABG Server): improved performance, added modules, and generated clinical reports for physicians
- Built an automated appointment scheduling and printing system; designed SQL Server data models with stored procedures and cross-environment data migration

**Tech:** C#, .NET, SQL Server, Sybase, WinForms

## Software Developer

Mar 2013 – Jun 2016

**Roanuz Softwares • Sybrant Technologies**

- Developed Litzscore, a high-availability live-scores platform using Python, WebSockets, and AWS (Cassandra, CDN, Route 53, ELB) serving real-time data to tens of thousands of concurrent users
- Built QCBIorepository, a healthcare research platform tracking coronary heart disease patients using Python, Django, Cassandra, and Elasticsearch
- Designed and published iOS apps on the Apple App Store and built a cross-platform Xamarin app (Android, iOS, Windows Phone) from a shared codebase
- Awarded "Best Contributor" 2014 at Sybrant Technologies

**Tech:** Swift, Python, Django, Xamarin, ASP.NET MVC, AWS, Cassandra, Elasticsearch

## PERSONAL PROJECTS

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### **dialysis.live — Multi-Platform Patient Health Platform (Web + iOS) • dialysis.live**

Health-tracking product for dialysis patients spanning a Node/Express + MongoDB API, a React 19 web app, and a native SwiftUI iOS app. Built an AI health assistant with retrieval-augmented generation (RAG) grounded in public-domain clinical sources (NIDDK, MedlinePlus) with inline source citations; medical-safety guardrails (emergency screening, citation enforcement, low-confidence fallbacks); field-level AES-256-GCM PHI encryption; and full App Store / production hardening.

**Tech:** TypeScript, Node.js, Express, MongoDB, React 19, Swift, SwiftUI, OpenAI, RAG, DigitalOcean

### **Ullam — Privacy-First AI Diary (iOS + macOS)**

Encrypted journaling app built with SwiftUI and SwiftData. Per-diary AES-GCM encryption (CryptoKit with HKDF-derived keys) and Face ID unlock, optional iCloud/CloudKit sync across devices, an AI writing assistant, on-device speech-to-text, and home-screen widgets. Cross-platform iOS and macOS from a single shared codebase; in final pre-submission hardening for the App Store.

**Tech:** Swift, SwiftUI, SwiftData, CryptoKit, CloudKit, WidgetKit, Speech, App Store

### **Assembly of God Rochester MN — Real-Time AI Sermon Translation • rochesterassembly.com**

Church web platform with live multilingual sermon translation; integrates the OpenAI and Claude APIs with Google Translate so non-English-speaking members follow services in real time.

**Tech:** React, Node.js, Express, OpenAI, Claude API, Google Translate

### **Inspired By The Cross — AI Devotional App (iOS + Android) • inspiredbythecross.com • live.inspiredbythecross.com**

Devotional app with an AI-powered Bible assistant, push notifications, and daily content. Built the Android app from scratch with Expo / React Native (single TypeScript codebase, EAS Build, OTA updates) alongside the native Swift iOS build. Live on the App Store and Google Play.

**Tech:** Expo / React Native, TypeScript, EAS Build, Swift, Firebase, OpenAI, Azure

### **Weather Whisper Assistant — AI Weather App (iOS, Live)**

Conversational AI weather assistant delivering intelligent forecasts and natural-language insights. Published on the Apple App Store (v2.0.3).

**Tech:** Swift, OpenAI, Weather API, REST

### **Edge AI on Raspberry Pi — Local LLM Inference**

Ran Llama and DeepSeek models locally on Raspberry Pi to prototype low-cost, offline-capable on-device LLM inference.

**Tech:** Raspberry Pi, Llama, DeepSeek, Python, edge computing

### **Additional Published iOS Apps**

TipNest (tip calculator), Tiny Wins Daily (habit tracker), and an AI Chat Suite (chatbot, DALL-E image generation, Whisper speech-to-text). Multiple apps live on the Apple App Store.

**Tech:** Swift, OpenAI, FastAPI, Node.js, Firebase

## CERTIFICATIONS

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### **Google AI Professional Certificate — Google (Coursera) • May 2026**

7-course program covering AI fundamentals, brainstorming & planning, research & insights, writing & communication, content creation, data analysis, and AI-assisted app building. [coursera.org/verify/professional-cert/HPML97HEV8W7](https://coursera.org/verify/professional-cert/HPML97HEV8W7)

### **Google AI Essentials — Google (Coursera) • May 2026**

Foundational specialization in responsible AI use, prompt engineering, and boosting productivity with AI tools across the workflow. [coursera.org/verify/specialization/QWV5TOCH34BQ](https://coursera.org/verify/specialization/QWV5TOCH34BQ)

## EDUCATION

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### **Bachelor of Information Technology**

Srinivasa Institute of Engineering & Technology, Chennai

### **Certificate in Java / J2EE**

National Institute of Information Technology (NIIT), Chennai