

Steven Prindle

Senior Software Engineer | Backend, Cloud & AI Systems

Lansing, MI | steprindle@hotmail.com

Senior Software Engineer with ten years of experience building full-stack applications, backend services, cloud-native systems, and event-driven architectures. Strong background in C#/.NET, Java, AWS, Kafka, SQL, and distributed systems, with recent hands-on work in Retrieval-Augmented Generation (RAG), vector search, embeddings, and agentic AI application design.

TECHNICAL SKILLS

Languages & Frameworks: C#, .NET, .NET Core, Entity Framework, EF Core, Java, Spring, Hibernate, Groovy, Angular, JavaScript

AI & Agentic Systems: OpenAI API, Retrieval-Augmented Generation (RAG), Vector Embeddings, Semantic Search, pgvector, Prompt Engineering, Agentic Workflow Design, Tool Calling, AI Evaluation Patterns

Cloud, DevOps & Containers: AWS (ECS, EC2, S3, Lambda, SAM), Azure DevOps, Docker, Terraform, Jenkins, CircleCI

Data, Integration & Messaging: SQL Server, Oracle, SQL, Kafka, EDI, FHIR, REST APIs

Architecture & Practices: Event-Driven Architecture, Vertical Slicing, TDD, DDD, Agile/Scrum, Waterfall

SELECTED AI PROJECTS

Portfolio Knowledge Assistant | *Personal Project* | ASP.NET Core, PostgreSQL, pgvector, OpenAI API, RAG, Vercel

- Designed and built an AI-powered portfolio assistant that answers natural-language questions about professional experience, projects, and technical background using Retrieval-Augmented Generation.
- Implemented a document ingestion pipeline to parse resume and project materials into structured knowledge documents for semantic search.
- Used vector embeddings and pgvector to retrieve relevant context before generating grounded responses through the OpenAI API.
- Architected the backend using ASP.NET Core, vertical slice architecture, dependency injection, and clean separation of concerns.

AI Support Triage Agent | *Personal Project / In Progress* | .NET, OpenAI API, Agentic Workflows

- Designed an agentic support-triage workflow to classify incoming production issues, identify severity, summarize context, and recommend next actions.
- Planned tool-based agent interactions for retrieving issue metadata, searching knowledge sources, and producing structured escalation recommendations.

PROFESSIONAL EXPERIENCE

LIMINALARC

08/2025 - 04/2026

Consumers Energy, Worker Authentication | *Senior Software Engineer* | 09/2025 - 04/2026

- Architected and delivered a .NET-based service request and work assignment notification platform, enabling real-time tracking and reliable event-driven workflows across distributed systems.
- Used Azure DevOps for backlog management, pull request governance, and CI/CD pipelines to support traceable, high-quality releases.
- Mentored junior engineers through mobbing/ensemble programming, improving code quality, shared ownership, and delivery consistency.

Tech: .NET, Azure DevOps, CI/CD, Event-Driven Architecture

DAUGHERTY BUSINESS SOLUTIONS / CGI

01/2023 - 04/2025

CareMetX, Benefits Verification | *Senior Software Engineer* | 06/2024 - 04/2025

- Identified and corrected an EDI Medicare Supplement parsing defect caused by off-by-one plan-letter truncation, recovering approximately \$10,000 in monthly revenue.
- Improved page response time by 66% by optimizing LINQ expressions, removing premature .ToList() calls, precompiling SQL-generating functions, and reducing broad wildcard queries.
- Developed a greenfield Coverage Eligibility Request ETL workflow in C#, increasing automated Benefits Verification by 10%.
- Provisioned AWS API Gateway, Kafka producer/consumer groups, and S3 PDF storage with Terraform; built Java REST APIs to publish legacy SOAP requests to Kafka.
- Built C# services to consume SOAP messages, map data to FHIR responses, and publish transformed results to public Kafka topics.

Tech: C#, .NET, Entity Framework, Java, Hibernate, SQL, Terraform, Kafka, AWS, EDI, FHIR

CareMetX, Data Egress & Transformation | *Senior Software Engineer* | 06/2023 - 04/2024

- Established the organization's first cloud data-egress pattern for transforming incoming data into Benefit Verifications and Prior Authorizations.
- Implemented a C# state machine with Stateless and AutoMapper to manage prescription/enrollment status changes and transform downstream output.
- Built AWS Lambda and Kafka workflows provisioned through Terraform; mapped payloads to FHIR using JSONata and published to Kafka topics.
- Reduced common page load times by 80% by refactoring Hibernate lazy-loading behavior and creating an Oracle view for complex transaction-derived data sets.
- Mentored a junior developer on Git Bash workflows and LINQ-to-SQL best practices.

Tech: C#, .NET, Entity Framework, EF Core, SQL, Terraform, Kafka, AWS, Jenkins, CircleCI

Cigna, Pharmacy Technology / AutoFill Modernization | *Senior Software Engineer* | 01/2023 - 05/2023

- Co-led an eight-week end-to-end testing effort, reducing the backlog by 30%, fixing 200+ bugs, and documenting medication-filling processes.

Michigan Department of Agriculture & Rural Development (MDARD) | Full Stack Software Developer | 10/2019 - 01/2023

- Created Angular providers and component injectors at root and modular scopes, establishing a dependency-injection foundation and simplifying unit testing.
- Built a Storybook application with a proprietary Angular Material library to accelerate UI prototyping for business analysts.
- Developed a custom service worker for local offline caching of plant and pesticide inspections; used Angular Material for accessible, responsive UI patterns.
- Helped double completed state inspections from 1,000 to 2,000+ by improving field inspection tooling.

Tech: C#, .NET Core, EF Core, Angular, Angular Material, Docker, SQL Server

Michigan Department of Health and Human Services (MDHHS) | Full Stack Software Developer | 09/2017 - 10/2019

- Coordinated directly with payors to build custom file formats when EDI was not available, including custom roster headers and downstream processing rules.
- Implemented Bash and Groovy processing scripts to route incoming roster files and execute payor-specific transformations.
- Migrated legacy Oracle batch billing jobs to Groovy scripts, reducing runtime from 10-12 hours to 30 minutes.

Tech: Java, Spring MVC, Spring Boot, Hibernate, Spock, Groovy, Bash, Oracle, Solaris

LOCHBRIDGE

07/2016 - 09/2017

Michigan Child Support Enforcement System (MISCES) | Java Consultant | 07/2016 - 09/2017

- Maintained and optimized 200+ Oracle batch jobs supporting the Michigan Child Support Enforcement System.
- Supported production operations with a sustained error rate below 0.2% in a Waterfall SDLC environment.

Tech: Java, Oracle 11g/12c, Oracle Forms, Spring Tool Suite, IBM Rational Team Concert, SVN

Delta Dental of Wisconsin - EDI Data Processing | Junior Developer | 09/2014 - 04/2015

- Maintained a proprietary enrollment system to ensure accurate parsing of EDI roster files.
- Worked with the team lead to troubleshoot erroneous coverage requests and enrollment-processing issues.

Tech: RPG, IBM iSeries (AS/400), iSeries Navigator, SVN

EDUCATION

Associate of Applied Science | Baker College of Muskegon