

Matthew Maas

Full-Stack C# / .NET Engineer | Healthcare | Fintech | AI Systems

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Summary

Full-stack engineer with 8+ years of hands-on C#/.NET experience building web applications, RESTful APIs, and enterprise systems across healthcare, financial services, and AI. Proven in fast-paced Agile environments delivering HIPAA- and PCI-DSS-compliant solutions. Experienced with cloud platforms (Azure, AWS), telephony integration, and AI-powered application development.

Skills

Languages: C#, JavaScript, TypeScript, SQL, Python, Java, XAML

Frameworks: .NET (Core/Framework/6/8), ASP.NET Web API, Entity Framework, WPF, React, Angular, Node.js

Communications & Telephony: Twilio Programmable Voice, Azure Communication Services, telephony integration, PSTN, SIP

Data: MS SQL Server, Azure Cosmos DB, Elasticsearch, query tuning, indexing

API & Tools: RESTful services, Web API, Postman, SoapUI, Fiddler, Git, Docker, Azure DevOps CI/CD, Jira

Testing: NUnit, xUnit, Jest, Selenium, React Testing Library, BDD/Gherkin, unit & integration testing

Practices: SOLID, secure coding (OWASP), distributed systems, microservices, Agile/Scrum

Compliance: HIPAA, PCI-DSS, HL7, DICOM

Education

University of Nebraska-Lincoln | B.S. Computer Science, Minor in Mathematics | GPA: 3.6 | Dec 2018 Regents Scholar · Dean's List · CSE Honors · VP of ACM · CS Tutor

Experience

Independent AI Engineer / Consultant | Remote | Jun 2023 -- Present

- Built 80+ production automation workflows (n8n) and 30+ Model Context Protocol (MCP) servers, a real-time voice AI platform (**OpenAI Realtime API + Twilio**), and an autonomous multi-agent orchestration system (TypeScript).
 - Delivered AI/automation consulting; secured \$14K+ in cloud credits (AWS, Microsoft, Google, Oracle) to fund product development.
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West Coast Wound & Skin Care | Software Engineer | Remote | Apr 2025 -- Aug 2025

- Engineered a full-stack financial reporting and payroll suite in C#/.NET — configurable provider rate management, complex backend calculations, and Excel pivot-table exports for auditing.
 - Built a C# data migration utility to import and synchronize a legacy EHR system, preserving data integrity through validation and transactional safeguards.
 - Resolved critical backend defects (including patient search) and improved report rendering and cross-module UI/UX consistency.
 - Enforced HIPAA-compliant data handling: TLS 1.3 encryption, field-level data protection, and automatic PHI access audit logging.
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CAI3p0 | AI Engineer Consultant | Remote | Jan 2025 -- Mar 2025

- Built a voice application platform (Python, Flask, **Azure Communication Services**) for AI-driven call transcription, analysis, and routing.
- Integrated **Twilio Programmable Voice** for PSTN connectivity with speech-to-speech workflows.
- Deployed serverless call processing on AWS Lambda and API Gateway.

Fiserv | Software Engineer III (Contract) | Omaha, NE | 2022

- Modernized legacy C# and VB.NET applications to .NET 4.8; resolved Fortify scan vulnerabilities for PCI-DSS compliance.
- Configured enterprise telephony integrated with Fiserv Core banking platforms for B2B financial clients.
- Automated Windows Server 2008→2016 upgrade via PowerShell for critical financial systems.

HelpSystems (Fortra) | Software Engineer (Contract) | Remote | Mar 2022 -- Sep 2022

- Enhanced C#/.NET Core/Entity Framework workflows for **Automate** desktop automation software.
- Participated in full Agile/Scrum ceremonies including sprint planning, daily stand-ups, and retrospectives.

Sound Technologies | Software Engineer | Carlsbad, CA | Jan 2019 -- Nov 2021

- Architected **Smart DR Fusion** medical imaging application (C#, WPF, MVVM, MS SQL, Entity Framework, DICOM), streamlining radiologist review workflow.
- Led development of **Smart RLT Sport** laser therapy app deployed in 5,000+ veterinary clinics worldwide.
- Redesigned unified UI across 4 diagnostic products with light/dark themes and multi-language support.
- Built React/Docusaurus documentation portals. Implemented Azure DevOps CI/CD across product lines.

Epic Systems | Software Development Intern | Verona, WI | May 2018 -- Aug 2018

- Built a surgical planning applet for Epic's **OpTime** (C#, WPF, HL7-compliant patient workflows).

Garmin International | Software Engineering Intern | Olathe, KS | May 2017 -- Aug 2017

- Developed a Java REST API syncing wearable health data post-outages — reduced complexity from $O(n^3)$ to $O(n)$.

CSG International | Software Development Intern | Omaha, NE | May 2016 -- Dec 2016

- Enhanced C#/.NET/Elasticsearch/TypeScript/AngularJS 1.5 infrastructure logging app. Built Selenium/Gherkin automated test suite with Azure DevOps CI/CD.

NRC Health | Raikes School Senior Design Capstone | Lincoln, NE | Aug 2017 -- May 2018

- Built an interactive geospatial health market analysis web tool (JavaScript, C#, ASP.NET) for NRC Health, delivered as a University of Nebraska Raikes School Senior Design capstone project using Agile methodology and Azure DevOps CI/CD.

Selected Projects

EbSnap (*commercial SaaS — ebsnap.com*) — AI-powered eBay listing generator: snap a product photo and get a complete, optimized listing (title, item specifics, description, and market-based pricing) in seconds, with one-click publishing to eBay. Built with Next.js 16, Google Gemini (Vertex AI) vision, the eBay Sell API, and Stripe billing; multi-account OAuth and tiered subscriptions. Live in production.

AI Phone Agent — Real-time voice agent platform: Twilio Media Streams → OpenAI Realtime API / AWS Bedrock Nova Sonic, orchestrated with Pipecat/FastAPI and containerized for AWS ECS Fargate. Low-latency speech-to-speech with LLM tool use — lead qualification, SMS booking, and CRM/email handoff.

MCP Server Suite — 30+ Model Context Protocol servers exposing external APIs and services (media management, automation, n8n) as typed tools for LLM agents, enabling tool-augmented AI workflows across heterogeneous systems.

Cross-Platform Mobile App (.NET MAUI) — Native Android / iOS / Windows / macOS app that ingests large public open-data document sets and serves searchable, plain-language AI summaries. Azure backend (Cosmos DB, Blob Storage, Functions) with a Python ingestion pipeline and OpenAI-generated summaries and key-change highlights; MVVM architecture, lazy loading, local caching, and Azure Key Vault-secured secrets.