

# Ken Crawford — Full Stack Developer | Software Engineer | Cloud & Automation | Power Platform

[KenWillCode@outlook.com](mailto:KenWillCode@outlook.com) | [contact@kenwillcode.com](mailto:contact@kenwillcode.com)

(301) 219-6440

Ellicott City, MD | U.S. Citizen | EST

<https://www.kenwillcode.com>

<https://www.linkedin.com/in/ken-crawford>

<https://www.credly.com/users/ken-m-crawford>

Full Stack Software Developer with 5+ years of experience developing secure, scalable web applications and backend systems across cloud-native and hybrid architectures. Skilled in modern development using C#, .NET, JavaScript, TypeScript, React, Node.js, SQL, Azure services, and complementary technologies, with a strong foundation in both frontend and backend engineering. Experienced in delivering business-critical solutions using clean, maintainable code, while collaborating in Agile teams and contributing to the full software development lifecycle. Proficient in Microsoft Fusion Development, integrating Power Platform tools such as Power Apps and Power Automate with traditional .NET and cloud-based systems to accelerate delivery, extend automation, and maintain enterprise-grade scalability.

---

## Skills

---

**Core Development:** JavaScript, TypeScript, C#, .NET, MVC, Python, Node.js, NestJS, React.js, Express.js, HTML, CSS, Django, Flask

**Power Platform:** Power Apps (Canvas and Model-Driven), Power Automate, Dataverse, Dynamics 365, Custom Connectors, C# Plugins, Copilot Studio, Power Fx, JSON, Azure Integration, Security Groups & Roles (RBAC), Web Resources, PCF Controls (React/TypeScript), SDKs & APIs (Dynamics 365, Power Platform, Dataverse), XRMToolBox

**Databases & Storage:** MS SQL Server, MySQL, PostgreSQL, Dataverse, Azure SQL, MongoDB, Cosmos DB, Amazon S3 & RDS, ORM frameworks

**Azure:** Azure Functions, Azure SFTP, Azure Active Directory / Entra ID, Azure Storage, Azure Cognitive Search, Azure Search Services, Azure DevOps, Azure CLI

**AWS:** S3, RDS, EC2, Lambda, API Gateway, VPC, IAM, Elastic Beanstalk, CloudWatch, CloudFront

**Testing & QA:** Jest, Pytest, K6, MSTest, Selenium

**CI/CD & DevOps:** Docker, Postman, Kubernetes, Azure Pipelines, GitHub Actions

**Version Control & Tools:** Git, GitHub, SourceTree, Azure Repos, Visual Studio 2019/2022, Visual Studio Code, IntelliJ, PyCharm, NPM, NuGet Package Manager, Microsoft Copilot

**Healthcare Standards (FHIR):** FHIR Mapping Language, FHIR Path, FHIR R4/R4B/R5, Microsoft FHIR Server, Firely FHIR Server, Azure API for FHIR, JSON, XML

---

## Experience

---

**Software Engineer, Mayo Clinic (Contract via Valere Consulting)**

May 2025 – Present

- Design and deliver enterprise solutions across both **.NET** and **Power Platform** environments, combining **C#, Azure, SQL, Server**, and **Power Apps (Canvas and Model-Driven)** to build scalable, secure, and integrated applications that align with organization standards.
- Develop hybrid Power Platform applications that pair Model-Driven Apps as secure, data-centric backends with Canvas Apps as dynamic front-end interfaces, using Dataverse as the unified data layer and extending functionality with Power Fx formulas, JavaScript web resources, Power Automate flows, and custom connectors to create seamless interaction, contextual navigation, and responsive user experiences.
- Develop and enhance front-end pages and features within .NET MVC applications, implementing Razor view updates, JavaScript interactivity, and responsive HTML/CSS design aligned with backend architecture.
- Enhance backend services and workflows leveraging .NET, SQL Server, Entity Framework, and Stored Procedures.
- Automate and optimize enterprise workflows using Power Automate, Dataverse, and built-in connectors, with the ability to create custom connectors and integrate with external APIs to extend platform capabilities.
- Knowledgeable in Microsoft Copilot Studio for designing conversational and AI-assisted automation, with previous hands-on experience developing chatbots and guided workflows using Power Virtual Agents (PVA), and additional experience creating custom GPTs in ChatGPT to prototype intelligent agents and explore AI-driven process automation.
- Collaborate within an Agile Scrum environment, contributing to sprint planning, daily standups, and iterative delivery of enterprise solutions.
- Utilize Azure DevOps, ADO Repos, and GitHub for source control and sprint planning, ensuring traceability and collaboration.

**Sr. Full Stack Developer, NewWave Telecom & Technologies Inc.**

March 2023 – February 2025

- Designed and maintained robust web applications and software using **C#, .NET, Node.js, NestJS, React.js, TypeScript, JavaScript, Python, HTML, CSS, PostgreSQL, MS SQL, Docker, Azure, Kubernetes, Java, AWS**, and more.

- Architected and deployed FHIR servers and APIs to enhance healthcare interoperability and software development.
- Built and optimized patient and practitioner portal websites. Contributed to developing the portal's corresponding mobile applications (*DiverCity Platform: Pulse, Clarity, and Magnet*).
- Developed and implemented web, Azure, API, and microservice software solutions within an Agile/Scrum environment.
- Represented NewWave & Onyx (previously a division of NewWave) at FHIR Connectathons (Conventions), collaborating with industry leaders to advance interoperability standards, evaluating the viability of software solutions, and establishing business relationships.
- Led development efforts at NewWave & Onyx, implementing Electronic Prior Authorization solutions in compliance with DaVinci Prior Authorization FHIR Standards.
- Designed and built web-based and API solutions following the DaVinci Prior Authorization Implementation Guides. Integrated CDS Hooks, SMART on FHIR, CQL, and related technologies.
- Enhanced security and authentication by implementing PKCE (Proof of Key Code Exchange) on top of the SMART on FHIR standard & OAuth 2.0 protocol.
- Extended and enhanced full-stack applications (C#, JavaScript, SQL, React) by integrating Power Platform components such as Dataverse, Power Automate, custom connectors, and embedded Canvas Apps, enabling automation, FHIR server interoperability, and secure API workflows via Azure Functions, API Management, and other Azure services.

#### **Jr. Full Stack Developer, NewWave Telecom & Technologies Inc.**

October 2022 - March 2023

- Engineered and maintained scalable solutions leveraging Azure, FHIR, APIs, Microservices, REST, and CRUD operations to enhance system interoperability and performance. Experience with FHIR resources, server filtering, and resource validation.
- Established software using **C#, .NET, Node.js, NestJS, React.js, TypeScript, JavaScript, Python, HTML, CSS, MS SQL, Cosmos DB, Docker, Azure**, and more.
- Implemented and optimized FHIR servers and FHIR software solutions, contributing to their development, deployment, and integration with existing software applications.
- Built and optimized web-based patient portal applications and contributed to developing three corresponding mobile applications (*DiverCity Platform: Pulse, Clarity, and Magnet*).
- Extended and enhanced full-stack healthcare applications (C#, JavaScript, SQL, React) by integrating Power Platform components such as Dataverse, Power Automate, custom connectors, and embedded Canvas Apps, enabling automation, FHIR server interoperability, and secure API workflows via Azure Functions, API Management, and other Azure services.

#### **Jr. Software Developer (Jr. DevOps Engineer), NewWave Telecom & Technologies Inc.**

July 2020 - October 2022

- Implemented full-stack software solutions harnessing Azure cloud technologies, C#, .NET, JavaScript, SQL, Dataverse, Dynamics 365, and Power Platform.
- Developed software solutions using: **Azure, C#, JavaScript, React.js, SQL, HTML, CSS, Dynamics 365 (Sales, CRM, CE), Power Platform, Power Automate, Power Apps (Canvas Apps, Model Driven Apps), LUIS, AI, Azure Functions, Plugins, Virtual Agents, Custom Connectors**, and more to bring solutions such as SmartMailAI and PowerSearch to market.
- Implemented D365 CRM Sales and Customer Service modules to support automated survey collection workflows, integrating third-party platforms such as ClickDimensions and Twilio for multichannel survey distribution and response tracking.
- Developed enterprise-level software solutions used worldwide by members of the Armed Forces (USTRANSCOM).

---

### **Certifications**

---

IBM Full Stack Developer Certification  
Professional Scrum Master (PSM I)  
AWS Certified Cloud Practitioner  
Microsoft AI-100 - Designing and Implementing an Azure AI Solution  
Microsoft PL-200 - Microsoft Power Platform Functional Consultant  
Microsoft MB-200 - Microsoft Power Platform + Dynamics 365 Core

---

### **Education**

---

#### **Bachelor of Science in Software Engineering**

Western Governors University

#### **Bachelor of Arts in Graphic Design**

University of Maryland, Baltimore County

#### **Associate of Arts in Information Technology – Web Development**

Howard Community College