

# Ken Crawford — Full Stack Developer | Software Engineer | Cloud | Automation | Integration

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Versatile Full Stack Developer with over five years of experience designing and delivering secure, scalable software solutions across cloud and hybrid environments. Proficient in modern frontend and backend technologies with a strong focus on performance, maintainability, and cross-platform integration. Collaborative contributor with a deep understanding of the full software development lifecycle and a passion for building efficient, end-to-end systems that support enterprise workflows. Skilled in building full-stack applications with C#, .NET, JavaScript/TypeScript, React, SQL, and cloud services (Azure, AWS), while also bridging traditional development with platform-based solutions like Power Platform to accelerate delivery without sacrificing extensibility or code quality..

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## Skills

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**Core Development:** JavaScript, TypeScript, C#, .NET, MVC, Python, Node.js, NestJS, React.js, Express.js, HTML, CSS, Django, Flask  
**Databases & Storage:** MS SQL Server, MySQL, PostgreSQL, T-SQL, Dataverse, Azure SQL, MongoDB, Cosmos DB, Amazon S3 & RDS, ORM frameworks  
**Azure:** Azure Functions, Azure SFTP, Azure Active Directory, Azure Storage, Azure Cognitive Search, Azure Search Services, Azure DevOps, Azure CLI, Azure AD / Entra ID  
**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  
**Enterprise Application Enhancements:** Power Platform (Canvas Apps, Model-Driven Apps, Power Automate, Dataverse, Custom Connectors, Plugins (C#), JavaScript/HTML/CSS extensions, PCF Controls (React/Typescript), Copilot Studio) Azure Integrations (Functions, Logic Apps, Service Bus), Power Fx, Role-Based Security

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## Experience

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### Software Engineer, Mayo Clinic

May 2025 – Present

- Design and maintain enterprise web applications using **C#, .NET, JavaScript, Python, HTML, CSS, SQL Server, and Azure services**, ensuring scalability and maintainability in production environments.
- Implement and optimize front-end features with C#, .NET, JavaScript, React.js principles, HTML, and CSS, improving user interfaces and overall user experience.
- Develop backend services and workflows leveraging **.NET, SQL Server, and Stored Procedures**, integrating securely with organizational systems.
- Architect and extend full-stack solutions using Power Apps (Canvas Apps, Model-Driven Apps), Dynamics 365, Dataverse, C# plugins, JavaScript web resources, PCF components (React/TypeScript), Azure, Copilot Studio agents, and more, to deliver scalable enterprise applications with responsive UI, role-based access control, and solution-aware design.
- Collaborate within an Agile Scrum environment, contributing to sprint planning, daily standups, and iterative delivery of enterprise healthcare solutions.
- Utilize Azure DevOps (ADO), ADO Repos, and GitHub for source control, sprint planning, and CI/CD pipelines, ensuring traceability and collaboration across development teams.
- Commit code and collaborate on features through pull requests, code reviews, and branch management, maintaining code quality and adherence to best practices.
- Design and develop automation frameworks and integration layers as part of full-stack solutions, leveraging Azure services, Microsoft Graph, and SQL Server, and extending functionality with Power Automate, Dataverse, custom connectors, and Copilot Studio to streamline cross-platform workflows and backend operations.

### 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.

- Building and optimizing 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.
- Subject Matter Expert (SME), Developer, and Admin within 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 role-based access control (RBAC) solutions by configuring Dataverse security roles, custom roles, and business units to enforce least-privilege access across apps, flows, and data layers.
- Developed enterprise-level software solutions used worldwide by members of the Armed Forces (USTRANSCOM).

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## **Certifications**

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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

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## **Education**

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#### **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