

# Kenneth Crawford - Senior Full Stack Developer

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Versatile Full Stack Developer with over 5 years of expertise in designing, developing, and deploying innovative software applications. Proficient in industry-standard programming languages and frameworks for both frontend and backend development. Strong understanding of the full software development lifecycle, from concept to deployment. Collaborative team player with excellent problem-solving capabilities and a passion for building efficient, optimized software solutions.

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## Skills

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**Languages & Frameworks:** JavaScript, TypeScript, Python, Node.js, NestJS, React.js, HTML, CSS, Bootstrap, Django, Flask, Express, C#

**Databases:** MS SQL Server, MySQL, PostgreSQL, T-SQL, Dataverse, Azure SQL, Mongo DB

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

**Testing:** : Jest, Pytest, K6, MSTest, JUnit, Selenium

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

**Version Control:** Git, GitHub, SourceTree, Azure Repos

**Developer Tools:** Visual Studio 2019/2022, Visual Studio Code, IntelliJ, PyCharm, Notepad++

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

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## Experience

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

March 2023 - Present

- Developing and implementing web, Azure, API, and microservice software solutions within an Agile/Scrum environment.
- Architecting and deploying FHIR servers and APIs to enhance healthcare interoperability and software development.
- Building and optimizing patient and practitioner portal websites. Contributed to the development of the portal's corresponding mobile applications (*DiverCity Platform: Pulse, Clarity, and Magnet*).
- Designing and maintaining robust web applications and software using **Node.js, NestJS, React.js, TypeScript, JavaScript, Python, PostgreSQL, MS SQL, Docker, Azure, Kubernetes, Java, C#, GitHub**, and more.
- Representing NewWave & Onyx at FHIR Connectathons, collaborating with industry leaders to advance interoperability standards.
- Sr. Full Stack Developer for *Onyx Technologies* (June 2023 – January 2025) a NewWave affiliate company, employed under NewWave, contributed to both organizations during this time.
- Led development efforts at 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.
- Established web applications and software solutions using **Node.js, NestJS, React.js, TypeScript, JavaScript, Python, PostgreSQL, MS SQL, Docker, Azure, Kubernetes, Java, Gradle, GitHub**, and more.
- Enhanced security and authentication by implementing PKCE (Proof of Key Code Exchange) on top of the SMART on FHIR standard & OAuth 2.0 protocol.

**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.
- Implemented and optimized FHIR servers and FHIR software solutions, contributing to their development, deployment, and integration with existing software applications.
- Experience with FHIR resources, FHIR server filtering, and FHIR Resource Validation. Established software using **Node.js, NestJS, React.js, TypeScript, JavaScript, MS SQL, CosmosDB, Docker, Azure, C#**, and more.
- Built and optimized web-based patient portal applications and contributed to the development of three corresponding mobile applications (*DiverCity Platform: Pulse, Clarity, and Magnet*).

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

July 2020 - October 2022

- Implemented full-stack software solutions harnessing Azure cloud technologies, Dynamics 365, and Power Platform.
- Subject Matter Expert (SME), Developer, and Admin within Dynamics 365 and Power Platform.
- Developed software solutions using: **Azure, JavaScript, React.js, C#, Dynamics 365, Power Apps, Power Automate, LUIS, AI, Logic Apps, Power Apps, Canvas Apps, Plugins**, and more to bring solutions such as SmartMailAI and PowerSearch to market.
- Developed enterprise-level software solutions used worldwide by members of the Armed Forces (USTRANSCOM).

#### **Web Developer / Software Engineer, Freelance**

June 2018 - July 2020

- Engineered multiple full-stack projects utilizing JavaScript, Python, and Kotlin, delivering efficient and scalable solutions.
- Designed and developed dynamic, responsive websites for diverse clients using **HTML, CSS, PHP, Python, JavaScript**, and more, ensuring optimal performance and user experience.
- Built and customized WordPress websites tailored to business needs, integrating plugins and optimizing functionality for seamless user interaction.
- Integrated and leveraged APIs to dynamically fetch and display data from various technologies.

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### **Certifications**

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IBM Full Stack Developer Certification

PSM1 - Professional Scrum Master

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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Howard Community College

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

University of Maryland Baltimore County

**Bachelor of Arts in Graphic Design**