

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.

Skills

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

Experience

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

March 2023 – February 2025

- Developed and implemented web, Azure, API, and microservice software solutions within an Agile/Scrum environment.
- 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*).
- Designed and maintained 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.
- Represented NewWave & Onyx at FHIR Connectathons (Conventions), collaborating with industry leaders to advance interoperability standards, evaluate the viability of software solutions, and establish business relationships.
- Sr. Full Stack Developer for *Onyx Technologies* (June 2023 – December 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 developing three corresponding mobile applications (*DiverCity Platform: Pulse, Clarity, and Magnet*).

- 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 - June 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.

Certifications

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

Education

Howard Community College

Associate of Arts in Information Technology – Web Development

University of Maryland Baltimore County

Bachelor of Arts in Graphic Design

Western Governors University

Bachelor of Science in Software Engineering

(Currently pursuing, expected completion in 2025. Structured to be completed while maintaining a full-time work schedule.)