Sean J. Hankins

Computer Programmer

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Experience

Lead Full Stack Application Developer

Perpetua Technologies, LLC

Mar 2019 - Present

Responsible for design, coding and maintenance of:

- A suite of mobile applications to support fire fighters and first-responders in the field (Xamarin/MAUI: Android/iOS/Windows)
- An extensive WebSocket / RESTful API to support the mobile suite with live emergency incident data and tracking (C#, .NET)
- A Web based interface for higher level aspects of managing personnel and apparatus of fire/medical agencies (ASP.NET MVC)
- API tools for downloading and parsing third party wildfire/hotspot datasets for on-map visualization (Python, C#, others)
- Modernized legacy platform from .NET Framework 4.7.2 to .NET 10, consolidating 63 projects across 19 solutions into an 11-project architecture, reducing codebase complexity by 83% (.NET Aspire, Docker, PostgreSQL)
- Decomposed monolithic 6,700-line API handler into 38 RESTful controllers with OpenAPI documentation, increased async coverage from 8% to 37%, and grew test coverage 31x (7 → 217 test files) (xUnit, Playwright, Jest)
- Migrated from Windows Server/IIS/SQL Server to Linux containers with PostgreSQL and PostGIS, eliminating proprietary database licensing costs and enabling deployment on minimal infrastructure (Docker, EF Core, PostGIS)
- Replaced custom WebSocket implementation with SignalR hubs supporting 200K+ concurrent connections, added structured logging and distributed tracing (Serilog, Seq, OpenTelemetry)
- Leveraged AI-assisted development (Claude Code) to accelerate platform modernization, including automated test generation, code migration, architectural refactoring, and documentation

Senior Software Developer

Clarity Ventures Inc.

Jun 2025 - Oct 2025

Responsible for designing, coding and troubleshooting:

- Custom e-commerce APIs for enterprise clients using C#, with Docker, K8s, Azure DevOps and Azure Functions
- Developing connection APIs for OData services, including SAP Concur and Epicore E10/11 and P21
- Project documentation and client communication

Senior Software Engineer

Twenty Ideas

Nov 2023 - Nov 2024

Part of a large team of developers designing and coding a software distribution platform, responsible for:

- Back-end development in C# .NET and MSSQL Database with Front-end development in React
- Amazon (AWS) storage and lambdas
- Design, implementation, testing and documentation

Lead Front End Application Developer

Moonshadow Mobile, Inc.

Nov 2007 - Feb 2019

Responsible for design, coding and maintenance of:

- Complex web application interfaces focusing on big data visualization and IoT (JavaScript, HTML, Node.js, Bing Maps, Google Maps, OpenStreetMap)
- A multi-platform mobile application that communicates to vehicles with OBD2 and tracks location (Python, Node.js)
- Complex web application interfaces and API focusing on voter data, walking list creation and data analytics (JavaScript/jQuery)
- iOS applications used to view, gather, map and synchronize data with system servers while mobile (Objective C)

Education

Associate of Applied Science (Computer Programming)

Lane Community College • GPA: 3.69

2007

Skills

Languages	Platforms	Storage	Tools & OS
C# / .NET	jQuery	MSSQL	Visual Studio
JavaScript	Node.js	SQLite	Rider
HTML/CSS	ASP.NET	PostgreSQL	VS Code
Python	React	MySQL	Git
Java	Android	AWS	Jira
PHP	iOS	Azure	Linux
		MongoDB	Windows
		Redis	Mac
			Claude
			ChatGPT