

Tulare, CA
Remote Availability

Armando Fernandez

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Executive Summary

Senior Software Engineer with expertise in .NET (Core & Framework), Blazor, WinForms, NodeJS, and SQL, specializing in full-stack development, API integrations, and cloud-based architectures. Holds a **Bachelor's degree in Computer Science** and is passionate about **building a positive team culture**.

Professional Experience

Irvine Unified School District – Remote

July 2022 – Present

Application Developer Level 3

- Developed custom in-house software solutions, modernizing outdated legacy applications using the .NET Blazor framework. Led full-stack development efforts, including backend architecture, UI components, authentication, and database migrations, ensuring seamless integration and high performance. Managed Active Directory authentication and Google OAuth2 for secure user access.
- Led the development of StipendPro, an essential HR tool that streamlined stipend processing for overtime, enabling HR to process approximately \$10 million in stipends within the first year.
- Led the development of JPA, a statewide vendor contract management system for school districts across California. The software enables districts to track and manage RFP proposals, ensuring vendors meet Ed Tech JPA's minimum essential requirements for products and services. The system automates contract agreements and invoicing, replacing the previous manual spreadsheet-based process with a centralized digital platform.
- Designed and deployed Fermi, the first .NET Blazor application presented to the district, leading the initiative to modernize student appraisal and placement processes. The software saved teachers, administrators, and principals hundreds of hours by eliminating the need to use email and spreadsheets for student performance evaluations and class placements. It is now widely adopted across the district.
- Designed and implemented CI/CD pipelines using Azure DevOps for on-premise IIS hosting servers, automating deployment and publishing processes for .NET 6, 7, and 8 projects to enhance efficiency and reliability.
- Provided mentorship and technical guidance to Level 1 and Level 2 developers, offering 1:1 coaching on C# programming, .NET Framework concepts, and SQL to enhance their technical skills and knowledge.

Medable Inc – Remote

March 2020 – May 2022

Senior Backend Engineer

- Led and mentored a team of three backend engineers, overseeing their daily work on multiple clinical trial projects while providing technical guidance in NodeJS development, MongoDB database design, and API integrations to ensure efficient and high-quality software solutions.
- Delivered software solutions for a clinical trial utilizing the Withings Sleep Tracking Mat, collaborating with iOS and Android developers to implement a user authentication flow using a mobile Webview. Designed and implemented an automated account creation system that generated Withings accounts for end users alongside Medable accounts.
- Integrated OAuth2, registering Withings sleep mats to track sleep data by obtaining and managing access tokens for the Withings API. Built automated services to refresh tokens and ensure continuous data retrieval for the clinical trial.
- Developed a real-time sleep data ingestion pipeline, fetching sleep metrics as new data became available and generating custom reports for clinical trial analysis.
- Key member of technical feasibility and intake meetings, collaborating with technical project managers to evaluate new feature requests, assess workload management, and define realistic deadlines.

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ERI – Hybrid (Fresno, CA)

March 2019 – March 2020

.NET Software Developer

- Developed a feature automating the shipping label generation process, saving customer service representatives hundreds of hours by eliminating manual label creation for enterprise laptop recycling programs. Some companies had contracts allowing them to send employee laptops for recycling in bulk. Previously, customer service reps manually processed spreadsheets and created USPS shipping labels one by one. Designed an automated workflow utilizing Azure Blob Storage, Azure Logic Apps, and Azure Functions to process incoming emails with attached spreadsheets. Azure Logic Apps detected and downloaded spreadsheet attachments, storing them in Azure Blob Storage, which triggered an Azure Function to process the file. Integrated the UPS API to verify addresses and automatically generate shipping labels, emailing them directly to recipients for shipment. The system automatically registered shipping labels, ensuring seamless package tracking and accurate billing for recycled laptops.
- Contributed to TrackTech, a legacy enterprise system developed by 30 engineers since 2008, designed to track e-waste recycling workflows.
- Worked with a MVVM architecture, maintaining and improving a codebase that consisted of Visual Basic and C# components.
- Debugged and optimized legacy code, refactored critical workflows, and implemented solutions to modernize system operations.

Ember Education – Visalia, CA

July 2017 – March 2019

.NET Integrations Specialist

- Developed a custom in-house student web portal using ASP.NET Core 3 MVC, replacing a legacy SharePoint-based system from 2010. The new portal served as a central hub for students, integrating various third-party services via SSO authentication with Azure Custom Applications (SAML 2.0). Enabled students to seamlessly navigate third-party integrations using their O365 credentials, providing a modern and efficient user experience. Integrated Canvas API to pull course and class data, allowing students to quickly access their coursework. Implemented custom alerts and announcements displayed at the top of the portal, with an administrative interface for managing and maintaining these components.
- Managed SSO integrations using Azure SAML 2.0, integrating in-house software with third-party platforms such as Okta, Canvas, Clover, and Pearson for seamless authentication.
- Developed and maintained APIs to facilitate secure and efficient communication between internal applications and external vendors.
- Implemented and optimized Azure-based solutions, leveraging Azure Functions and Azure Logic Apps for automation and workflow improvements.

Skills

- **Languages:** C#, JavaScript
- **Frameworks:** .NET (Core & Framework), Blazor
- **Databases:** SQL, MongoDB, Entity Framework
- **Cloud & DevOps:** Azure, Git, CI/CD, IIS, OAuth2, REST APIs

Education

Bellevue University, Bachelor's in Computer Science

March 2020