

Miller Boyd

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Technical Skills

Languages: C#, JavaScript/TypeScript, SQL, Python, Java, C++

Frameworks & Libraries: .NET, ASP.NET Core, Entity Framework, React, Next.js, WinUI/XAML, Node.js

Tools & Platforms: SQL Server, Azure DevOps, CI/CD (YAML pipelines), Azure Static Web Apps, MongoDB, Git, Jira, Contentful

Education

- Southern Methodist University 2022 – 2024
B.S. Computer Science
- Certificate, UCF Full Stack Web Development Bootcamp 2021

Experience

Associate Software Developer - WebTPA

Jun 2025 - Present

- Sole developer on an end-to-end claims creation and submission web app serving millions of members across several large clients. Built the frontend in Next.js with OIDC authentication and Contentful CMS, and the backend in ASP.NET Core with Entity Framework
- Led migration of ~100 legacy database tables into a shared Entity Framework package library, modeling the majority of the production schema for reuse across internal applications
- Develop features for the company-wide internal WinUI/.NET application, building data-driven pages and reusable C#/XAML components in partnership with UI/UX design, including a reusable data grid, custom date picker, and in-app navigation that eliminated popping out to separate windows
- Optimized ~100 legacy stored procedures, rewriting key ones as Entity Framework queries to improve maintainability and performance
- Built and maintain Azure CI/CD pipelines (YAML) to package, version, and deploy applications and shared libraries
- Mentored three junior developers since February 2026: write and scope their stories, review code, pair program, and guide their growth from onboarding through independent feature work
- Authored a strategic architecture proposal for modernizing the company's flagship application, defining a React/TypeScript platform vision, modular architecture, multi-tenant configuration model, and phased migration strategy to support future product growth.

Software Developer - AI Trainer (Contract)

Feb 2025 – Jun 2025

- Wrote and refined Python and JavaScript code to evaluate and improve AI model behavior, focusing on reasoning, math, and code generation tasks
- Built and tested prompt-based workflows and API integrations for language models, scoring outputs and debugging failure cases to improve response reliability

Projects

X-Ray Weld Flaw Detection App (Senior Design Project in partnership with Lockheed Martin)

Jan 2024 - May 2024

- Dev Stack: Python, PyTorch (Ultralytics YOLOv8), Flask, React, Electron
- Developed a full-stack application for detecting microscopic weld flaws in aerospace X-ray imagery, working under NDA with Lockheed Martin's proprietary inspection data
- Trained a YOLOv8 object detection model to localize defects in large DICOM imaging files, tiling images into sub-arrays to improve detection accuracy and recall
- Delivered a standalone Electron desktop application with a React frontend to Lockheed Martin engineers