

Shane Miller

Senior Software Engineer • Full-Stack / Frontend-Leaning

Boulder, CO (Remote Eligible)

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EXPERIENCE

Senior Engineer Level II — Data Center Inc.

April 2025 – Present | Remote

Senior II engineer on a .NET-based core banking platform supporting daily financial operations for community financial institutions under strict SLAs.

- Design and implement across full stack features in C#/.NET within a large, mature banking ecosystem
- Work across ACH processing, batch systems, transaction flows, reconciliation pipelines, and reporting layers
- Debug and resolve production incidents impacting live financial data and downstream systems
- Contribute to performance optimization and system reliability across interconnected banking modules using Static Code Analyzer (SCA) scans.
- Navigate legacy and modern components in a highly regulated, compliance-driven environment
- Partner cross-functionally with product, QA/BA, and support to deliver secure, production-grade releases

Environment / Stack:

C#, .NET Framework / .NET Core, SQL Server, Stored Procedures, ASP.NET WebForms/MVC, Telerik, REST integrations, Windows Server environments, Agile workflows

Founder / Lead Engineer — ApplyPro.ai

September 2024 – Present

Built and launched an AI-powered resume platform from the ground up, handling frontend, backend, payments, analytics, and deployment.

- Developed full SSR Next.js application using App Router and TypeScript
- Designed reusable component architecture with Tailwind UI
- Built API routes for AI resume generation and document processing workflows
- Integrated Stripe for subscription tiers and Mixpanel for product analytics
- Deployed CI/CD via Vercel with environment-based configuration management
- Scaled to 400+ active users through rapid iteration and data-driven improvements

Stack:

Next.js (App Router, SSR), React, TypeScript, Node.js, Stripe, Mixpanel, Tailwind CSS, Vercel, PostgreSQL

Founder / Lead Engineer — U-Mail.ai

April 2024 – Present

Developed an AI-enhanced email and messaging platform integrating third-party APIs and real-time systems.

- Built Node/Express REST APIs for email processing and AI enhancement pipelines
- Integrated Gmail API, Firebase (Auth + Realtime DB), and secure OAuth 2.0 flows
- Implemented voice-to-text modules and AI-based text enhancement systems
- Designed scalable messaging workflows and reusable backend services
- Extended platform with Google Meet and Zoom integrations for B2B use cases
- Managed production deployments, token handling, and secure authentication flows
- Expanded platform into B2B markets by launching industry-specific AI communication tools
- Built modular API architecture to support multi-tenant and vertical-specific deployments

Stack:

Node.js, Express, React, Firebase, OAuth 2.0, Gmail API, OpenAI APIs, REST APIs, GCP, Vercel, Mixpanel

S&P Global — 2014–2024 (10 Years Total)

Worked across large-scale global financial systems powering market data, trading workflows, cross-referenced exchange data, and enterprise financial products used by institutions worldwide.

Over a decade, progressed from client-facing web developer to senior engineer trusted with mission-critical production incidents across distributed systems and entire client code bases supporting daily global stock trade.

Senior Software Engineer

February 2018 – February 2024

Assigned to complex, high-impact production systems responsible for real-time financial data, cross-exchange feeds, and enterprise trading infrastructure supporting global markets.

- Diagnosed and resolved critical production incidents impacting live market visibility and institutional clients
 - Rapidly ramped across unfamiliar internal stacks including Vue, React, JavaScript, C#/.NET (MVC, Razor, WebForms, ASP.NET), and Node/Express to isolate root causes in both legacy and modern enterprise systems
 - Owned enterprise identity integrations including SAML, SSO, and OAuth across multiple distributed financial products
 - Debugged and optimized large-scale data ingestion and cross-referencing pipelines processing global exchange vendor feeds
 - Built trusted relationships with leading financial data providers to coordinate corrections, resolve discrepancies, and accelerate data integrity improvements
 - Investigated performance bottlenecks and data inconsistencies affecting real-time trading and analytics systems
 - Partnered closely with infrastructure and product teams to maintain uptime, SLA compliance, and operational stability across distributed services
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Web Developer — Client-Facing Team

August 2014 – 2016

Developed and maintained high-traffic financial web applications serving multinational institutional clients.

- Built live-streaming and real-time financial display systems used by institutional trading teams
 - Delivered client-specific enhancements across legacy and modern codebases
 - Integrated new functionality into mature enterprise applications under tight deadlines
 - Collaborated directly with global clients to troubleshoot and resolve production issues
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TECHNICAL STACK

Frontend: React, Next.js (App Router, SSR), Vue.js, TypeScript, JavaScript (ES6+), Tailwind CSS, Component Architecture, Real-Time UI Systems

Backend: C#, .NET Framework/Core, ASP.NET (WebForms, MVC, Razor), Node.js, Express, REST APIs, Server-Side Rendering, Enterprise Application Architecture

Data & Systems: SQL Server, PostgreSQL, Stored Procedures, Query Optimization, Large Dataset Processing, ACH Processing, Batch & Reconciliation Systems, Financial Data Ingestion Pipelines

Identity & Security: SAML, SSO, OAuth 2.0, Secure Token Handling, Session Management, Enterprise Identity Integrations

DevOps & Cloud: Docker, CI/CD (TeamCity, Jenkins, Vercel), Firebase (Auth + Realtime DB), Google Cloud, Stripe Integrations, Mixpanel Analytics, Git