

# Timothy D Meadows II

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## Full Stack Developer

I bring 23 years of experience, engineering high availability distributed systems, and applications. I can lead teams of engineers, and developers as large as 15. I have strong knowledge of security policies and practices as well as experience in securing medical, and financial systems. I have strong communication skills, and can work alone on large projects for protracted periods of time.

## SKILLS

| FRONTEND   | BACKEND              | LANGUAGES    | SERVER                 | AI                   | DEVOPS         |
|------------|----------------------|--------------|------------------------|----------------------|----------------|
| Flex Box   | Dependency Injection | C# .NET      | Windows Server         | Caffe                | Github         |
| Bootstrap  | Entity Framework     | JavaScript   | Ubuntu Server          | Yolo                 | Github Actions |
| jQuery     | Web Hooks            | Node.js      | Docker                 | Pytorch              | Azure DevOps   |
| Kendo      | Blazor Server        | Markdown     | Aws                    | Movidius             | TFS            |
| Telerik    | Microsoft SQL        | PowerShell   | Azure                  | OpenAI               | Git            |
| Blazor     | Azure Functions      | Batch        | Nginx                  | OpenALPR             | Svn            |
| MVC        | Azure Storage        | Python       | Apache                 | Microsoft.ML         | Cvs            |
| Razor      | Azure Service Bus    | XAML         | FTP                    | Predictive Analytics | VSS            |
| Mustache   | Azure Queues         | Visual Basic | SSH                    | TensorFlow           |                |
| CORS       | Azure Tables         | PineScript   | Active Directory       | TensorFlow Lite      |                |
| Knockout   | Lambda Functions     | HTML         | Azure Active Directory | NABirds              |                |
| Underscore | SQLite               | CSS          | Azure Networking       |                      |                |
| Backbone   | MySQL                | XML          | Azure VPN              |                      |                |

## EXPERIENCE

### **The Dot Corp, Inc,** Santa Ana, CA — *Lead Full-Stack Developer*

JUN 2014 - FEB 2023

- Built a highly secure automated distributed fedex, ups, and usps based labeling, and tracking warehouse system for medical testing primarily used for distribution, and tracking of covid 19 testing

kits. This also included tracking, and automation for packing, scanning, and label placement before shipment.

- Built an automated highly secure warehouse system for medical documents generation supporting MailMerge. This also including tracking, and automation for labeling, and scanning, of documents before shipment.
- Introduced the company to the concept of Edge based caching, origin based routing, and, web application firewalls. I also helped to conduct security training, and, audits to help the company reach both PCI, HIPPA, and Hi-Trust compliance standards.
- Helped build a store platform around Twitch selling, and managing Twitch streamer product inventories including postal drop boxes for fans through automation.
- Given control of creating a programming team. Which grew into a healthy, productive team of remote employees from around the world.
- Designed a unique load balancer for a pdf generation engine which allowed the companies processing time to go from 45 sec - 7 minutes (average of 1.8 minutes) to 1 sec - 1 minute (average of 1.2 seconds). Together this equated to a 1500% increase in user traffic for the companies real-estate division in just 1 year.
- Repaired, and, managed a highly-complicated HTML 5 template editor (think InDesign in a browser) for the companies real-estate division.
- Managed the companies SQL Server (2008, 2012) and upgraded it to SQL 2014. This included 13 databases. The largest of which was 112 GB.
- Helped to upgrade an existing real estate system for processing leads, and agent materials from .NET 2.0 into .NET 4.5.
- Hired to move the company from physical on-site hardware to virtualized hardware in the Windows Azure Cloud. This move covered 8 servers, 13 databases, and, 9.97 TB's of data spread across 7,818,736 files (mostly images, fonts, and, pdfs) from a 2-server legacy system.

**Skills:** Underscore.js · Backbone.js · Blazor · SignalR · SOLID Design Principles · ASP.NET MVC · Git · JavaScript · C# · HTML 5 · Cloud Computing · Web Applications · Software Development · Data Analysis · Microsoft SQL Server · SQLite · REST · Ubuntu · Windows Server · Windows Azure · Node.js · CSS · SQL · ASP.NET · Microsoft Azure · .NET Framework · Web Application Security · Database Security · Windows Security · Cryptography · Cloud Security · Ethical Hacking · SQL Azure · Redis · CDN · Azure Storage · Distributed Algorithms

## **Via Touch Media** San Diego, CA — *Sr. Developer*

APR 2017 - MAY 2019

- Provided server management, and system creation through Aws, and Azure
- Created lambda functions for api management tasks.
- Built a finger print api for a vending machine used to quickly identify known registered users, and help charge them for products removed. Featured at CES 2017 and on [Fox Business](#).
- Built an eye scanning api for a vending machine used to quickly identify known registered users, and help charge them for products removed.
- Provided consulting for securing the distributed vending machine platform in multiple states using Elastic Search.
- Provided consulting for power management with Raspberry PI, and biometric equipment.
- Provided research on AI brand recognition capabilities of both cloud based, and local hardware based systems.

**Skills:** Blazor · SignalR · SOLID Design Principles · ASP.NET MVC · Git · JavaScript · C# · HTML 5 · Cloud Computing · Web Applications · Software Development · Data Analysis · Machine Learning · Microsoft SQL Server · MySQL · C++ · Arduino · SQLite · REST · Ubuntu · Windows Server · Windows Azure · Node.js · CSS · SQL · ASP.NET · Microsoft Azure · .NET Framework · TensorFlow · Python (Programming Language) · Web Application Security · Database Security · Windows Security · Cryptography · Cloud Security · Ethical Hacking · SQL Azure · Redis · CDN · Azure Storage · Biometrics · Raspberry Pi · OpenCV · Distributed Algorithms

**nPrivate** San Bernardino, CA — *Security Systems Engineer*

JAN 2008 - OCT 2013

- Created secure messaging standards for the company built around commonly used technologies such as IRC, SMS, and Twitter API.
- Created encryption standards for the company based on FIPS 140-2 government encryption processing standards.
- Documented messaging, and encryption standards for approval in order to comply with current cryptographic export laws.
- Created a secure messaging platform, and application called Tweet'N Private using Twitter as a communication medium.
- Helped to create a secure messaging platform, and application called Talk'N Private using IRC as a communication medium.

**Skills:** SOLID Design Principles · ASP.NET MVC · Git · JavaScript · C# · HTML 5 · Cloud Computing · Web Applications · Software Development · Data Analysis · Microsoft SQL Server · MySQL · SQLite · REST · Ubuntu · Windows Server · Visual Basic · Node.js · CSS · SQL · ASP.NET · .NET Framework · Python (Programming Language) · Web Application Security · Database Security · Cryptography · CDN · Distributed Algorithms

**TopLingo, Inc** Irvine, CA — *Application Systems Engineer*

APR 2005 - NOV 2008

- Built a distributed payment gateway using Wells Fargo ACH for an automated pay anything online service.
- Helped build a loan credit scoring engine for JP Morgan Chase that could generate a credit score in under 1 hour. Industry standard at that time was 3 days, or more.
- Helped build a loan management system for Impac.

**Skills:** ASP.NET MVC · Git · JavaScript · C# · HTML 5 · Web Applications · Software Development · Microsoft SQL Server · ASP · ActionScript · SQLite · REST · Ubuntu · Windows Server · Visual Basic · CSS · SQL · ASP.NET · .NET Framework · Web Application Security · Database Security · Cryptography

**Slingshot Development, Inc** Irvine, CA — *Software Developer*

AUG 2002 - APR 2005

- Built website for Anaheim Convention Bureau.
- Built text messaging sport scoring system using Sports Ticker api service
- Built website for Miles Davis
- Built website for Carlos Santana

**Skills:** ASP.NET MVC · JavaScript · C# · HTML 5 · Web Applications · Software Development · Microsoft SQL Server · ASP · ActionScript · SQLite · REST · Windows Server · Visual Basic · CSS · SQL · ASP.NET

## **Meadows & Meadows** Anaheim, CA — *Software Developer*

JUN 2000 - AUG 2002

- Built order, and inventory management systems for AT&T, Dish Network, and DirecTV contractors to help locate, and track installed converter boxes when installers installed them in customers houses.
- Built anti-theft scanning system to help warehouses catch converter box theft from installers.

**Skills:** JavaScript · HTML 5 · Web Applications · Software Development · Microsoft SQL Server · ASP · ActionScript · Perl · SQLite · REST · Windows Server · Visual Basic · CSS · SQL

## PROJECTS

### 1. [reCAPTCHA.AspNetCore](#)

Google reCAPTCHA v2/v3 for .NET.

### 2. [GUvrs](#)

.NET MAUI Windows, and Mac application for checking the Gods Unchained debug log for you, and your opponents profile ids during a game. You can click on the profile ids to load up the respective GUdecks profile.

### 3. [PinnedMemory](#)

Cross platform method for creating, and accessing pinned, and locked memory for Windows, Mac, and Linux operating systems for .NET.

### 4. [Yolo6.NetCore](#)

Implementation of You Only Look Once (v6) AI image classification model for .NET.

### 5. [Curve25519.NetCore](#)

Implementation of an elliptic curve offering 128 bits of security and designed for use with the elliptic curve Diffie–Hellman (ECDH) key agreement scheme for .NET.

### 6. [AeadChaCha20Poly1305.NetCore](#)

Implementation of AEAD\_CHACHA20\_POLY1305 an authenticated encryption with additional data algorithm using ChaCha20, and Poly1305.

### 7. [Argon2.NetCore](#)

Implementation of Argon2 key derivation function for .NET.

### 8. [Blake2b.NetCore](#)

Implementation of the cryptographic hash, and mac functions of BLAKE2b for .NET.

## LANGUAGES

- [English](#)

## CONTACTS

- [Email](#)
- [Twitter](#)
- [Github](#)
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