



## ABOUT ME

With 25 years in the industry, I am a versatile engineer, communicator, and data expert. My strength lies in crafting solutions for complex software challenges, aiming to leverage my extensive experience to develop leading AI solutions. I am committed to innovation and excellence in every project I undertake



## WHAT I'VE DONE

### OpenAI Custom GPT

#### AI OR HUMAN - PROJECT

Is your essay written by a **Human** or **LLM**? Led the development of a **Custom OpenAI GPT** with Actions and API Integration, achieving seamless integration with **ClearML**. This project spotlights my ability to navigate complex AI architectures and deliver a comprehensive solution from concept to deployment.

- Orchestrated a scalable ml deployment leveraging **PyTorch**, **OpenAI**, **HuggingFace**, **Docker**, and **NVIDIA Triton** Inference, ensuring the model's seamless operation and accessibility.
- Crafted an **OpenAI GPT** with Actions and API Integration.
- Improve model **interpretability** by using **GPT4 LLM** to augment forecast **explanation**.
- Stack: ClearML, OpenAI, HuggingFace, PyTorch, TensorFlow, Scikit-Learn, InterpretML, Spacy w/ Berkley Neural Parser, Optuna, Docker, K8, NVIDIA Triton Inference

[OVERVIEW](#) [SOURCE CODE](#) [VIDEO WALKTHROUGH](#)

## Valorem Reply

### VROOM VROOM

As a Software Engineer III for the Product Transformation team, we built an Azure-native race analytics and car inventory platform for GM Motorsports. Centralizing telemetry, race, and car build data, and optimizing decision-making for six motorsports teams.

- One sheet: <https://valoremreply.com/work/modern-tools-to-transform-and-elevate-motorsports-technology>
- Built a custom unit and integration testing tool (ROP) for the FastTrack migration system for Microsoft.

## Brandt Information Services

### DIGITAL LANDSCAPE TRANSFORMATION

- Managed the development of sixteen (16) Xamarin Mobile Applications for iOS and Android, and ten (10) Law Enforcement (iOS/Android)
- Built SQL queries for millions of records per state.
- Built Tableau reports for clients.

## TransitCheck.com

### A SITE USED BY ALMOST ALL WORKING NEW YORKERS

- Built TransitChek.com.
- Developed prototype search tech with Carnegie Mellon University. Based on their Vivisimo Platform. (acquired by IBM in 2012, now integrated into Watson)

[TRANSITCHEK.COM](https://transitchek.com)



# ... continued MWM Fund

FULL TECH BUILD INCLUDING CREDIT MODELS

- Design and Build Corporate Identity.
- Built MWMFund.com.
- Built the Private Investor Admin Portal (React/Redux/Google Cloud/Firebase, Docker/Kubernetes).
- Built Machine Learning, and EDA tools for price and foreclosure models. (Python, TensorFlow, Keras, Plotly, D3, Jupyter, flask, and others).
- Node.js Web API (flask) for Partner Integration.

[MWMFUND.COM](http://MWMFUND.COM)

## Cloud Scale International

HELPING MONSTORS COMMUNICATE

- BUILT A custom "YOUTUBE" CMS for Monster Energy sales teams to communicate. using SharePoint. Built a custom windows media player.
- Built a custom reporting and analytics solution - Azure/Application Insights.
- Built Demo Bots using Microsoft Bot Platform and Beta versions of Live Tiles. (Q&A maker/Microsoft Luis).

## Gain Life, Inc / Harvard Innovation Labs

FEEL BETTER AND GET BACK TO WORK

- Worked with behavioral scientists to develop multiple applications that assisted helped companies in tackling claim costs associated with psychosocial issues

[GAINLIFE.COM](http://GAINLIFE.COM)

## Artificial Chat

APPLICATION ENGINEER/ AI RESEARCH AND MORE RESEARCH

- Built the framework for their in-house Bot Platform.
- Built AWS bots using Lex.
- Designed/implemented next-gen conversation UI.
- Researched and Implemented NLP (Natural Language Processing) for bots.
- Massive amount of research on bots and AI when bots were just getting going.

## Slot Roadtrip

FUN FOR FUN'S SAKE IS FUN

**A BEST OF BREED MULTIPLAYER SLOT MACHINE GAME FOR IOS**

Architecture, Concept, Design, Animation, Programming, Score, Objective-C, Cocos2d-X, Core Data - It's hard to make a slot machine game with a story, but here is the concept. You're on a gambling crazed road-trip across the country, working your way from Vegas to Atlantic City, drinking beer, playing slots, willing millions, breaking out of jail (in Alcatraz), fighting aliens (in Roswell), snowboarding for your life (in Denver) and dabbling in voodoo (in New Orleans).

[HTTPS://WWW.YOUTUBE.COM/WATCH?V=XJUA6MHBMYA](https://www.youtube.com/watch?v=XJUA6MHBMYA)

## SPECIALTIES

- Technologies: AI/ML, ClearML/MLOps, PyTorch, OpenAI, SKLearn, Node., React/Redux, iOS Swift/Obj-c, Google Cloud, AWS, Azure, Docker, Kubernetes, MongoDB (all NoSQL), TensorFlow, Keras, NVIDIA Triton Inference, CUDA, SQL Server, Jupyter Lab/Hub, CoLab, Python/Flask,
- Languages: Python, ESx/JS, C#, Swift, SQL, Java, TypeScript, SQL, Rust, C++, C, HTML/CSS

## STCUSA.COM

DELIVERED A HIGH TRAFFIC, MULTI MILLION DOLLAR A YEAR SITE, AND A FEW MOBILE APPS

- Rebuilt [www.stcusa.com](http://www.stcusa.com) front and back end (.net MVP/C#, SQL Server). A custom e-commerce solution.
- Integrated client-facing applications with back-end systems.
- Developed Two iOS native applications. See here [in the app store](#)
- Built customer portals for their banking clients (Chase, GS, and others).

## Lightning Charts

IOS EHR CERTIFIED EMERGENCY ROOM BEDSIDE CHARTING TOOL

Served as Lead Architect and Engineer for the lightning charts product, enabling bedside medical documentation, including EKG and radiology images, via iPad. Integrated voice-to-text technology for efficient data entry.

- Zero-to-product production in under 6 months
- Developed Choice Point® interface that reduces 80% of manual entry for a 100% final chart.
- Integrated Isabel Symptom Checker.
- HIPAA compliant and EHR modular certification.
- Complete hands-free charting with Dragon and Nuance.

## L'Oreal USA

FROM OLD TO NEW..

Port L'Oreal's web applications from asp old to asp.net

- lorealusa.com full redesign and back end
- redken.com visual redo
- redkensalon.com visual redo

**RECEIVED A MENTION FROM BILL GATES FOR MY WORK ON THIS PROJECT IN A KEY NOTE**

[LOREALUSA.COM](http://LOREALUSA.COM)

## NinjaTrader Group, LLC

PLATFORM ARCHITECT AND QUANTITATIVE PROGRAMMER

Corp - to - Corp: Developed custom tools for the Ninja Trader IDE, Custom

Indicators, Automated Strategies, and ML forecasting systems.

Some unique tools!

- A converter to port NT7 code to the new NT8

- A Bayesian Classification ML for chart pattern matching and swing forecasting

- 50+ Custom Indicators, Strategies

- A replacement for chart trader with Risk Management, Adaptive trailing options, statistical forecasting, Global stop gap, and much more

-Indicators are available on futures.io.

## Havas Life

FUN WITH CRAYONS. and Illustrator, flash, 3dmax, director, and so forth..

ANIMATOR AND CONCEPTUAL DESIGNER FOR ONE OF THE TOP AD AGENCIES IN THE WORLD  
Developed the interactive proposals for prospective clients. Pfizer, GlaxoSmithKline, and Pharmacia to name a few.

[WWW.HAVASLIFE.COM](http://WWW.HAVASLIFE.COM)

