

Matthew Finucane

Palmetto, FL

-Email me on Indeed: <http://www.indeed.com/r/Matthew-Finucane/09e1b2a27b985059>

Work Experience

Senior Full Stack Developer

American Power and Gas-Saint Petersburg, FL

October 2023 to Present

- Using python, turned many directories of audio recordings into per-speaker conversations saved to a database for analysis and action.
- Leveraged advanced speech-to-text libraries, including Whisperx, Faster-Whisper, and Whisper-Diarize, to achieve high accuracy in transcription and speaker diarization.
- Optimized processing workflows to handle multi-speaker audio files efficiently.
- Created in app audio slicing functionality so users could cut long conversations into small more focused snippets and attach along with text during validation process.
- Became the primary developer on Jackpot, the main customer and account data entry system. This system utilized Typescript as the front end language, while the backend was comprised of C# data connectors and LINQ for basic CRUD operations.
- Created new and modified existing Typescript modules, pages and business logic to add new features and fix issues.
- Integrated Panda Doc digital signatures, allowing for an entirely digital contract creation process. This process is required in some states and is vital in day to day business operations.
- Assisted with development of an updated version of internal software utilizing Blazor technology. This is similar in nature to MVC and Razor, where business logic exists along with the UI view.
- Converted Jackpot modules into the new Blazor based system. This process required modifying almost every existing page to keep a system up to date that is constantly changing.
- Published changes into the internal SDLC pipeline. These changes moved from a local development environment, to QA for overall system testing and into production.

Data Integration Engineer

FLORIDA CANCER SPECIALISTS-Tampa, FL

November 2021 to February 2023

- Created a data driven task flow to ingest files programmatically using Informatica's cloud data integration (CDI) and cloud application integration (CAI) tool sets.
- Process accesses API endpoints to retrieve data, meta data and compressed files.
- Zip files are automatically extracted during data gathering stage.
- The framework reads the data structure of the incoming object and creates or modifies the destination table if necessary.
- The ETL mapping is generated at run time ensuring the most up to date data structure is used.
- Assisted with generation of Informatica mappings, mapping tasks and task flows to help populate entities necessary for data governance (DG), master data management (MDM) and normal business processes.
- As the senior technical member of the team, I am responsible for the following:
- Assisting team members with proper deployment and development processes concerning SSAS, SSIS and SSRS.

Tech. Solutions Architect, Business Analytics

MCA CONNECT-Denver, CO

January 2018 to August 2021

- Lead developer for our data warehouse, the primary data ingestion platform for all points of information
- Process evolved from using SSIS packages for on-premises deployments to leveraging Synapse views on top of a common data model in the Azure DataLake.
- All steps of process include detailed logging and complete source to target mapping.
- A data dictionary and metadata repository of all mappings is provided, allowing the client to customize the data warehouse after the project has been completed.
- Overall process takes 400+ raw data entities and transforms them into 50+ fact tables and 200+ dimensions.
- Implemented multiple data warehouses across numerous business segments
- Created new and migrated existing data warehouses into a single data warehouse platform.
- Modified existing client data warehouses and processes to improve performance. Reducing one client's existing data warehouse load times by over 75%, allowing for multiple refreshes through out the day instead of a single nightly update.
- As the senior technical member of the team, I was responsible for the following:
 - Defined, implemented, and enforced software engineering and architectural guidelines so end-to- end development remained smooth and to insure performance.
 - Mentored junior developers in technical skill and career development strategy. Provided hands on training, assignments and created how to videos.
 - Maintained artifacts - versions, including software code, documents, design models and setting standard operating procedures

Team Lead Business Intelligence

TRIAD RETAIL MEDIA-Saint Petersburg, FL

September 2013 to November 2017

- Analytics Portal: Developed responsive HTML5 portal using the .NET 4.6 framework, that all internal users and external clients use to access dashboards, analyses and reports.
- Single Sign-On (SSO) methodology allows users to view analytics from Tableau, SSRS, custom dashboards and Campaign Performance reports (PPT) in a single interface.
- Security layer is comprised of Active Directory authorization and group based roles.
- Custom dashboards consist of C3.js and custom D3 charts.
- Invoice Automation: All invoices for the company flow through a five step validation process before being delivered. Previous process used excel spreadsheets to manage monthly tracking.
- Created proper normalized database structure with activity tracking.
- Developed as a .NET/jQuery single page application where custom security roles dictate what level of interaction a user is allowed.
- Upon invoice approval, process updates Salesforce using the Force .NET API .
- Final validation step executes a pixel to pixel comparison against original SSRS report to ensure no visual imperfections exist before emailing invoice.
- Automation provided a 70% reduction in time spent per month, from 10 business days down to 3.
- Data Ingestion Framework: Established initial process that manages the intake of all external third party data. Data sources consist of 15 data providers across 30+ publishers.
- Built database structure that manages connection information, frequency, file type and load procedure. Also tracks file throughout entire loading operation, logging status and time taken between each step. Row counts are also compared to ensure validity.
- Utilizing C#, PowerShell and/or python, process connects to providers API endpoints to retrieve standard reports or custom data extracts.
- Ingestion of data files leverages custom Web API framework that selects the proper SSIS package for loading into SQL or PowerShell script for Hadoop consumption.
- Notification framework handles delivery of summary reports detailing missing files, improper data, loading times and overall data health.

- Provided architectural design decisions and mentorship to other team members

Technical Lead Business Intelligence

MOFFITT CANCER CENTER-Tampa, FL

September 2010 to September 2013

- Interpreter Services: Department was originally using spreadsheets and email to manage patient assignments. Process required interpreters to return to their desk, severely delaying reassignments and patient interaction.
- By focusing on the customers needs and taking a data first approach, transactional database was designed from the beginning to support team KPIs along with department and patient metrics.
- Application was built using .NET framework 4.5 and HTML5 following best practices that allow translators to manage encounters on their phones or tablets without the need to return to their desks.
- Data driven processes alert the team to take action on unassigned encounters or when patients are discharged in order to retrieve hardware devices.
- SSAS OLAP cube and Power BI dashboard allowed leadership to become self sufficient in reporting needs, reducing requests to BI team by 100%.
- Web API backend allowed native iOS application to utilize same end points as .NET front end.
- Physician Budgeting and Analysis: Working tightly with the business unit and physician staff, built analysis cube, front end administration tool and dashboard that is still used to drive business and staffing decisions.
- OLAP cube was built using SSAS and was sourced from CERNER patient and encounter data elements.
- Developed administration tool using .NET Framework 4.0 and HTML5. Application reduced service tickets submitted to BI team by 90%.
- Created custom OBIEE dashboard that allows business unit to analyze departments and physicians from a summary level and drill down into various levels of granularity.

Senior Programmer Analyst

BANKERS INSURANCE GROUP-Saint Petersburg, FL

May 2008 to September 2010

- Developed base classes and frameworks that other applications and processes would rely on. Some examples of these were dynamic configuration management, batch report processing and a universal charting control.

Senior Programmer Analyst

LIFESTYLE FAMILY FITNESS-Saint Petersburg, FL

May 2007 to May 2008

- Lead development projects utilizing the .NET 3.5 framework. Created solutions that relied on the Ajax Toolkit to provide a smooth experience for the customer.

Application Developer

UNISOURCE ADMINISTRATORS-Tampa, FL

June 2003 to May 2007

- Worked with team members developing .NET 1.1 and .NET 2.0 applications.

Education

Bachelor of Science in Finance

Florida State University - Tallahassee, FL

Skills

- Javascript/jQuery/Node.js
- C#
- - Databases (RDBMS): SQL Server, Oracle, AWS DynamoDB (10+ years)
- SSAS (10+ years)
- OBIEE
- Power BI
- Crystal Reports
- Python
- ETL Tools: SSIS, Azure Data Factory, Informatica CDI & CAI, Data Bricks, BIML (10+ years)
- Tableau
- SSRS
- PowerShell
- VB.Net
- SQL (10+ years)
- Data Warehouse
- Git
- Agile
- XML
- Application Development
- Requirements Gathering
- APIs
- HTML5
- ASP.NET
- Azure Data Lake (5 years)
- Azure (5 years)