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MARVIN KASSABIAN

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EDUCATION

Michigan Technological University • B.S. in Computer Science, Minor in Mathematics   *September 2011 - December 2015*

SKILLS

- **Programming Languages:** Go, Java, C++ , C#, TypeScript, Python, Ruby, R
- **Frameworks and Libraries:** Next.js, Vue.js, scikit-learn
- **Databases:** PostgreSQL, T-SQL, MongoDB, Firebase

PROFESSIONAL EXPERIENCE

Superior Technologies Research • *Senior Software Contractor*   *May 2025 - Present*
- Developing an HR performance-tracking platform with a Vue.js frontend and Go backend to streamline employee goal management and progress tracking.
- Leveraging Arden Labs' Go architecture to enforce a robust, testable paradigm, improving code maintainability and reliability.

Calder Solutions • *Part-Time Software Developer*   *July 2024 - August 2025*
- Developed the frontend of an educational platform using Next.js, enabling teachers to create, schedule, and publish lessons with integrated questions.
- Utilized PayloadCMS for managing lesson content and Firebase for handling student responses.
- Collaborated with the design team and incorporated customer feedback to ensure the website is user-friendly, accessible, and meets client requirements.

Michigan Immigrant Rights Center • *Data Analyst*   *April 2024 - April 2025*
- Reported and audited data from internal SalesForce system to funders, enabling better activity monitoring and facilitating additional funding opportunities.
- Developed automated scripts to import and reconcile funder data, streamlining end-of-month auditing processes with up-to-date information.
- Created comprehensive data visualizations using Python to showcase organizational impact, highlighting employee achievements throughout 2024.
- Enhanced and maintained R code for monthly data processing, improving efficiency and accuracy of reporting.
- Implemented Python scripts to clean and correct archival data, resolving critical funding-related data integrity issues prior to April 2025 deadlines.

Superior Technologies Research • *Senior Software Contractor*   *September 2021 - March 2024*
- Decomposed legacy PHP and ASP.NET monolith codebase into domain-specific Go services with a Vue.js frontend.
- Created a Go-based API to streamline accounts payable integration between Medius and Microsoft Dynamics GP.
- Refactored repositories to adhere to domain-driven design (DDD).
- Contributed to a Go library aimed at standardizing service creation, enhancing DevOps capabilities for service management.
- Rewrote Node.js services in Go for improved maintainability.
- Updated legacy codebase for multi-currency support and enhanced data security.
- Developed a robust expense processing integration that transforms Expensify data into consumable models.
- Converted legacy T-SQL stored procedures to maintainable Go code.

eoStar • *Software Developer*   *August 2016 - September 2021*
- Performed K-means clustering analysis with scikit-learn to identify customer segments and purchasing patterns, providing actionable insights for marketing and inventory strategies.
- Trained and evaluated a classifier for predicting purchasing behavior using scikit-learn and custom data processing, optimizing model performance through precision-recall analysis and ROC curve visualization.
- Built and deployed a TensorFlow-based machine learning model from sales data on end-user iOS devices.
- Developed a RESTful API in ASP.NET Core for daily data transfers to third-party software.
- Led projects involving order suggestion and voice assistant functionalities, utilizing machine learning models.
- Designed and implemented backend systems for government integration in ASP.NET Core.
- Supported and developed a Xamarin.iOS app to facilitate transactions for field users.

eoStar • *Data Migration Specialist*   *February 2016 - August 2016*
- Conducted ETL operations using T-SQL to integrate client databases and enhanced a legacy C++ application with SQL export functionality to streamline data conversion and transfer processes.

Jackson National Life Insurance • *Software Developer*   *January 2013 - August 2015*
- Led a team of three in database migration and GUI bug fixes, collaborated on a Java-based scheduling app, contributed to a recruitment optimization tool, and developed a performance reporting application in a team of four.