NILSON MOLINA

WEB DEVELOPER & IT PROFESSIONAL

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San Jose, California

EDUCATION

Coding/Programming School
42 Silicon Valley
Fremont, California
2017-2018

B.S. Information Technology
Florida International University
Miami, Florida
2009-2013

TECHNICAL

CURRENT FOCUS

HTML5 / CSS3 / JavaScript

ReactJS *(Front End)*

NodeJS / ExpressJS *(Back End)*

AWS *(Amazon EC2 Servers)*

Git (*Code Version Control)*

Jest *(Unit Testing Framework)*

FAMILIAR WITH

Sass/SCSS *(CSS preprocessor)*

PostgreSQL (*SQL Database)*

Redis *(In-Memory Data Store)*

Go *(Procedural Language)*

Python *(Scripting Language)*

Flask *(Backend)*

Docker *(Containerization)*

MongoDB *(NoSQL Database)*

C# *(Object Oriented Language)*

C *(Procedural Language)*

PROFESSIONAL EXPERIENCE

IT Consultant — *2014-2018*

NAMO Group Solutions – Miami, FL

- Provided IT services such as remote and on-site customer support, computer repairs, hardware/software installations and more to numerous businesses.
- Built and configured a Remote Desktop Server to host software packages
- Created NGSPrices, an invoicing web application being used by several businesses
- Acquired Microsoft sponsorship to minimize development and training costs

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PROJECTS

NGSPrices – https://ngsprices.azurewebsites.net/Default.aspx — *2016-2018*

Stack: Asp.net, Azure, SQL Server, C#, jQuery, Bootstrap

Invoicing & Inventory management web app that is being used by several businesses internationally. Sole creator and maintainer for over two years.

- Refactored several features to implement AJAX for a better user experience
- Implemented non-clustered indexes to improve expensive DB queries
- Routinely cleaned and imported raw CSV data into production DB
- Provided customer support and bug fixes when reported

Chapp - https://chapp.ml — *Feb 2019*

Stack: ReactJS, NodeJS, Socket.io, PostgreSQL, Redis, AWS, Nginx, Bash

Scalable messaging web app built using the WebSocket protocol for real-time communications.

- Configured Nginx as reverse-proxy to handle encrypted HTTPS traffic
- Reverse proxy also configured as load balancer between node clusters
- Deployed to AWS EC2 and RDS servers
- Redis store setup for sharing stateful data amongst stateless nodes
- Created Bash scripts to build, deploy, and automate workflows
- Running servers with PM2 for production level stability and monitoring

Himnario – https://himnario.ml — *Apr 2019*

Stack: HTML5, CSS3, JavaScript, GitHub Pages

A single page web app containing a compendium of hymns that is currently being used by several churches to generate a slideshow with lyrics for the congregation to follow.

- Built to replace an old x86 program, while implementing requested features
- Multiple hymns per slideshow, eliminating the previous limitation of just 1
- Allows users to Save and Load custom playlists & Drag and Drop reordering
- Runs entirely for free on GitHub pages without any other backend server
- Improved load times by downloading slides when user selects a hymn

School Projects - 42 Silicon Valley — *2017-2018*

Projects had to be written in C without the use of C's standard libraries.

- **Libft:** Implementation of many common functions provided by C's Standard Libraries
- **Fillit:** Use of backtrack recursion to fit Tetris pieces in smallest size square
- **Fractol:** Render fractals and implemented multi-threading for improved performance
- **Hercules:** Weekly challenges on ssh, SMTP, http load testing, memory leaks & more. Some of these challenges were solved using other languages like Go and Python.