

# NILSON MOLINA

WEB DEVELOPER & IT PROFESSIONAL

-  (408) 256-3181
-  MolinaNilson@gmail.com
-  www.NilsonMolina.com
-  github.com/nilsonmolina
-  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

## 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.

- Built a responsive UI design to work across multiple devices
- 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 while user is selecting hymns

### 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 challenges were solved using other languages like Go and Python.