



# MARTIN NICOLA

## SOFTWARE ENGINEER



[martinnicola.com](http://martinnicola.com)



[github.com/codewithmarty](https://github.com/codewithmarty)



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Self-starting, independent, and versatile full-stack web developer. Passionate about learning new technologies and using them to improve real-world systems. Skilled at uncovering solutions to difficult problems and can complete projects with minimal direction. Life-long leader, mentor and educator.

## TECHNICAL SKILLS

### Languages, Frameworks, and Libraries:

JavaScript, Python, Node.js, Express.js, Socket.IO, HTML5, CSS, jQuery, AJAX, Django, React.js, Vue.js, Angular, Java, C++, C#, SwiftUI

### Databases and DB Management Tools:

PostgreSQL, MySQL, MongoDB, Mongoose

### Data Science and Machine Learning:

R, TensorFlow

### Methodologies:

Object Oriented Programming, MVC Pattern, Responsive Design, Test-Driven Development, Authentication, User Stories, ERDs, Wireframing, REST APIs

## EDUCATION

### Data Science: Machine Learning with TensorFlow APIs 2022

#### Google Developer Courses

Course in linear and logistic regression, minimizing loss function, training and validating ML models and applications of neural networks.

### Software Engineering Immersive 2021

#### General Assembly

Full stack web development program focused on integrating complex back-end functionality, intuitive front-end user interfaces, and best-practices of OOP, MVC frameworks, team development, and test-driven deployment.

### Biomedical Physics (MSc) 2017-2018

#### Toronto Metropolitan University

Performed advanced data analysis and manipulation with C++ toolkits and Python based programs to analyze dosimetry around nonoscale of novel form of radioactive particle

## PROJECTS

### Shooter SwiftUI Mobile Game [github](#)

Shooter iOS game that allows players to play as the UFC fighter Khabib as he takes down wild bears.

Technologies used: SwiftUI

### MMA API [deployed](#) | [github](#)

A set of endpoints that allows any user to collect data on their favourite MMA fighters to build out their own applications.

Technologies used: Express/Node, MongoDB and Python (Webscraping).

### Pokemon Adventures Game [deployed](#) | [github](#)

A full stack application that allows users an immersive experience where they too can become a Pokemon master.

Technologies used: Express/Node, MongoDB, PokeAPI

## PROFESSIONAL EXPERIENCE

### Full Stack Developer 05/2022 - present

#### Agency Undone

Backend development in node, forming a variety of modules to be utilized in repetition across multiple projects. Frontend development in Vue.js framework, assembling many pre-built components together in a well-oriented and responsive design. Data cleansing, analysis, and centralization from multiple sources including MongoDB and JSON API, identification and display of relevant metrics for client analysis in an easily-digestible format.

### Associate Instructor 12/2021 - present

#### General Assembly

Instruct students engagingly, encouraging teamwork and promoting overall technical skill enhancement. Students are mentored while they build four fundamental projects including a capstone MERN stack application.