




MARTIN NICOLA

SOFTWARE ENGINEER

 martinnicola.com

 github.com/codewithmarty

 martinnicola89@gmail.com

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, GraphQL

Cloud Computing

AWS: S3, EC2, DynamoDB, RDS, Lambda, Kubernetes, CloudFormation, API Gateway

Methodologies:

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

EDUCATION

Cloud Practitioner Certification 2023

AWS

Deploying valuable products to the various services offered by the cloud including: EC2, S3, DynamoDB, RDS, Lambda. Learning how to utilize all of these services in a scalable environment to meet client needs.

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

I am constantly experimenting with new technologies and building new projects. Check out my portfolio at martinnicola.com for an up-to-date showcase of my latest work.

PROFESSIONAL EXPERIENCE

Software Engineer

08/2021 - present

Argus Maritime Services

Full Stack Development

- Successfully built robust back end components using Java resulting in efficient data processing and enhanced business logic implementation.
- Developed a dynamic front end site using React/NextJS, delivering engaging user experience and improving user engagement by 30%.
- Created secure REST API using Django for seamless request processing, handling, and integration, ensuring data privacy and meeting client needs.
- Leveraged Docker for efficient containerization, simplifying deployment and ensuring consistent performance across different environments.
- Implemented PostgreSQL database to securely store critical encrypted data, providing reliable storage and access for the organization's inventory management.

AWS Cloud Migration

- Orchestrated successful migration of internal architecture to AWS micro-services using a server-less application model, resulting in a 60% reduction in infrastructure costs and a 70% increase in scalability and flexibility.
- Established a high level of security through AWS managed services, implementing encryption in transit and at rest, safeguarding sensitive data and ensuring compliance.

Data Analysis

- Demonstrated expertise in handling data acquisition and analysis for key clients in the logistics industry, delivering actionable insights and driving operational efficiencies.

Business Analysis

- Consulted with operations teams and project managers, effectively translating business requirements into technology specifications, ensuring alignment and driving successful project outcomes.
- Played a pivotal role in the fulfillment of technology requirements, achieving project goals and enhancing operational effectiveness.
- Proactively tested and assessed product efficacy, resulting in improved customer satisfaction and product performance.
- Maintained product integrity and functionality through diligent bug fixes and regular updates, minimizing downtime and maximizing user experience.

Full Stack Developer

05/2022 - 12/2022

Agency Undone | Part time contract

- Backend development in node
- Frontend development in Vue.js framework
- 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 - 03/2023

General Assembly

- Designed and delivered lectures to students on topics including:
 - building full stack CRUD applications using multiple stacks
 - algorithms and data structures
 - code VCS and collaboration tools
- Provided one-on-one support to mentor students, help them understand the material and complete their assigned labs and projects