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Miguel Alejandro Madrigal R.

Versatile Software Developer with expertise in Python, Java, and Full-Stack Web Development, specializing in Flask, PHP, MySQL, and TypeScript. Developed projects like a Agendafy, DevTree, Schoolify platforms, focusing on performance and scalability. \

Personal Portfolio

Link: <https://amr-dev-portfolio.vercel.app>

Skills

Problem-solving abilities • Technical recruiting • Written and verbal communication • Goal oriented • Administrative skills • Analytical Thinking • Calendar Management • Proficient in Microsoft Office Applications • Programming • Python • Java • JavaScript • HTML5 • CSS3 • SQL Server Management Studio • PowerBI • Oracle SQL Server • MySQL • NoSQL • MongoDB • Vercel • Netlify • Render • Cloud Services • AWS • Cloudinary • CI/CD • Scrum

Projects

2025 Schoolify (Full-Stack: With MERN WebStack (MongoDB, Express, React, Node.js)

Developed a full-stack web application to manage created courses by any user:

- Database management with MongoDB for users, courses, evaluations, etc.
- Database management with Redis for chats between users.
- Database management with Neo4J for friend requests and friend relationships.
- Database management with Cassandra for document management.
- User authentication and user management

Front-End (React):

- Responsive and interactive UI for courses, enrollments, course creation, etc.
- Dynamic updates using React.

2025 Agendafy (Full-Stack: Next.js, React, MongoDB, TypeScript, Vercel)

Developed a full-stack web application for meeting management, allowing users to create organizations, schedule meetings, define agendas, and generate minutes:

Database & Backend:

- Managed organizations, users, and meetings using MongoDB.
- Automated Gmail integration for sending meeting minutes to participants.
- Implemented Next.js API routes for serverless backend logic.
- Deployed on Vercel for seamless CI/CD and scalability.

Front-End (React/Next.js):

- Created an intuitive UI for organization setup, meeting creation, and agenda management.
- Dynamic rendering of meeting details and real-time updates using React hooks.
- Responsive design for optimal usability across devices.

2025 DevTree (Full-Stack: Node.js, React, TypeScript, MongoDB, Express, Render, Netlify)

Developed a full-stack web application to manage developers Social Media, allowing users to create their own page to share their developers profiles and different social media links:

Database & Backend:

- Managed users and links using MongoDB.
- Cloudinary for profile images storage.
- Backend deployed on Render for scalability

Front-End (React/Next.js):

- Created an intuitive UI for user account creation, LogIn system with tokens, using JsonWebTokens.

- Sonner for PopUp Error or Success messages.
- TanStack for Queries.
- React-Hook-Form for hook management.

2025 Personal Portfolio (React, Next.js, Vercel, TypeScript)

Developed a front-end web application portfolio with my previous projects, curriculum vitae (English and Spanish), the page can change languages between English and Spanish, can change between dark mode or light mode. The user can send emails in the contact section with NodeMailer.

Front-End (React/Next.js/TypeScript):

- Created an intuitive UI for the user, where they can navigate different sections, such as: Contact, About Me, Home and Projects.
- NodeMailer system to send emails to my personal email address.
- Applied FramerMotion to different components.
- React-Hook-Form and FramerMotion to applied a smooth transition between languages, and dark-mode and light-mode.

2025 Eco-Colones (Full-Stack: Next.js, React, TypeScript, Supabase, PostgreSQL, PostCSS, Vercel)

Together with my team, I developed a web application promote and manage recycling activities by connecting users, affiliated businesses and collection centers. The platform lets users earn and redeem points for recycled materials, track transaction history, locate nearby collection centers on an interactive map, and provides admin/affiliate panels to manage materials, products and reports.

Database & Backend:

- Managed users, roles and transactions using Supabase (PostgreSQL) for persistent storage.
- Server-side API routes (Next.js) implement business logic for points accounting, redemptions and transaction validations.
- Email templates and transactional mail (password resets, confirmations) stored and triggered from backend utilities.
- Data seeding and location tables (provinces/cantons/districts) to support geolocation and reporting.
- Audit-ready transaction records and statistics endpoints for administrative reporting.

Front-End (React/Next.js):

- Responsive UI built with Next.js and TypeScript, component-driven architecture (forms, modals, tables, toasts).
- Interactive map component to find and filter collection centers; client-side location selection and directions.
- Role-based interfaces: user dashboard (points, transactions, redemptions), affiliate dashboard (products/offers), admin settings (materials, currencies, centers).
- Client-side validations, optimistic UI updates for transactions, and clear feedback flows for rewards and requests.
- Deployed on Vercel with serverless API routes and PostCSS for styling.

Education

2023 - Present

Bachelor's Degree Student in Computer Engineering (65% of school's curriculum completed) / Instituto Tecnológico de Costa Rica

2017

High School Diploma / Instituto de Desarrollo de Inteligencia

2025 - Present

HTML5, CSS3, JS AJAX PHP & MySQL Certification / UDEMY

Finished

SQL Server Certification / UDEMY

2025 - Present

Python Certification / UDEMY

2025 - Present

FullStack (Node.JS, TypeScript, Express, React, Next.JS, Nest.JS) Certification / UDEMY

2025 - Present

Data Structures (C++) Certification / UDEMY

Languages

Native Spanish • English (B2)