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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.

## 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 • Oracle SQL Server • MySQL

## 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.

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## 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**

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## Languages

Native Spanish • English (B2)