

André Mendes - Full Stack Developer

Contact

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Summary

Hello, I'm André Luiz Mendes Miranda, a passionate back-end developer driven by challenging projects that push me to achieve my best. I believe that facing difficult experiences not only enhances my skills but also allows me to contribute significantly to both my personal development and the community.

I am pursuing a degree in Software Engineering at UNIPAMPA-RS, where I am continually evolving as a professional and honing my soft and hard skills. While I seek to learn as much as possible about various areas, my studies are focused on back-end technologies, especially Java, Go, JavaScript, and Rust. I have completed several courses related to this field, including Microservices with Spring Boot and Kafka, cybersecurity, and others.

I am an enthusiast of Linux and the open-source movement, always experimenting with new distributions and tools. Additionally, I am passionate about learning languages. Besides my native Portuguese, I use English in my daily life and am always looking to learn new languages, such as French.

My social skills are strongly influenced by my hobbies. Problem-solving, communication, and critical thinking are competencies that I apply both in daily life and in team work. I am interested in enhancing my knowledge in Docker, Apache Kafka, Microservices, Kubernetes, Blockchain, and other future innovations that may interest me.

Hard Skills

- **Linguagens de Programação:** Java, Go, JavaScript, Rust
- **Desenvolvimento Web:** Node.js, React
- **DevOps:** Docker, Podman, Apache Kafka, Microserviços
- **Bancos de Dados:** MongoDB, Postgres, Mysql
- **Ferramentas e Tecnologias:** Git, Linux
- **Outros:** Troubleshooting, Concurrent Programming, Scripting

Experience

Compass.uol

Scholarship Program | Full stack Journey (Node.js & React) - AWS Cloud Context
Jul 2024 – Present (2 months)
Fullstack development using Node.js and React in the AWS Cloud context.

Universidade Federal do Pampa

Fapergs Scholarship Holder
Apr 2023 – Oct 2023 (7 months)
Research and study for the paper "Design and Evaluation of a Worked Examples Template for Teaching Programming".

UNIPAMPA Universidade Federal do Pampa RS

Research and Extension Scholarship Holder: Program C
Aug 2022 – Dec 2022 (5 months)
Assisted in events and tasks, maintained and created content for social media, and conducted introductory workshops on computational thinking.

Education

Universidade Federal do Pampa

Bachelor's Degree in Software Engineering

Jan 2022 - Dec 2025

Certifications

Projetista - YBR Cursos

- Tecnologia Fundamental - YBR Cursos
- Video Designer - YBR Cursos
- JavaScript-base - OneBitCode JavaScript
- Connecting to MongoDB in Java - MongoDB
- MongoDB CRUD Operations in Java - MongoDB
- Getting Started with MongoDB Atlas - MongoDB
- MongoDB Atlas Security - MongoDB
- Chef DevOps for the Absolute Beginners - Udemy
- REDIS - Hands-on Beginners Course on Redis - Udemy
- Lean 6 White Belt Sigma - Upskills
- The complete Cyber Security Course: Hackers Exposed! - Udemy
- Java COMPLETO Programação Orientada a Objetos + Projetos - Udemy
- Developing Your Executive Leadership Skills - Udemy
- Concurrency In Go (Golang) - Udemy
- Aprenda Git e GitHub em 3 dias + Projetos reais - Udemy
- Git & GitHub - The Practical Guide - Udemy
- Complete Guide to Protocol Buffers 3 [Java, Golang, Python] - Udemy
- Rust - Curso Avançado [2024]
- Javascript POO - OneBitCode
- JS Moderno - OneBitCode
- JS DOM - OneBitCode

Projects

REST API for Markets and Products in Go

<https://github.com/Mendes113/marketGo>

I developed this REST API to consolidate my knowledge and practice Go. The API is designed to serve markets and supermarket chains, offering complete CRUD functionalities.

The API includes essential features such as:

- 🔑 User authentication with routes protected by JWT.
- ⚙️ CRUD operations (create, read, update, and delete) for markets and products.
- 📄 Endpoints for creating product invoices.
- 📖 Automatic documentation with Swagger.


Tools Used:


- 🐼 Go (Fiber framework): The Fiber framework was used to develop the API.
- 💧 MongoDB: Used to store data.
- 🐳 Docker: MongoDB was hosted in a Docker container.
- ✉️ ElasticMail: Used to send login notifications and welcome messages upon registration.
- 🔑 Auth with JWT: Secure authentication using JSON Web Tokens.

Main Routes Implemented:

- 🔑 /login: Endpoint for user login.

 /register: Endpoint for registering new users.

 /api/markets: Protected routes for managing markets (listing, creating, updating, and deleting).

 /api/products: Protected routes for managing products (listing, creating, updating, and deleting).


 /api/products/invoice: Endpoint for creating product invoices.

The application also includes various unit tests to ensure quality. The API is configured to display automatically generated documentation using Swagger, facilitating the visualization and testing of available endpoints.

lsr - CLI Tool for Listing and Exploring Files in Rust

<https://github.com/Mendes113/lsr>

I developed a CLI tool called lsr inspired by the ls (Linux) and exa commands. This tool allows listing and exploring files in a directory, offering additional functionalities.

 Features:

- List all files in a directory
- Filter files by type (extension)
- Sort files by size (largest or smallest)
- Display file sizes in megabytes (MB)

 What I Learned:

- Fundamentals of the Rust programming language
- Working with file systems and directories in Rust
- Developing a command-line interface (CLI) using Rust
- Git version control and collaboration on GitHub

Requirements:

- Rust compiler
- Cargo package manager

How to Use:

1. Clone the repository
2. Navigate to the project directory
3. Run the program using Cargo

Or use the binary (for more information, refer to the project)

Future Work:

- Implement a visually enhanced system with CLI highlighting to provide a more pleasant and intuitive user experience.
- Add functionality to delete files directly from the program, offering greater convenience and control over file management.
- Create a mechanism to show rarely or never used files, helping users identify obsolete or unnecessary files.
- Develop a more comprehensive mechanism for directories, exploring advanced file navigation and organization features to improve the program's efficiency.

 Example Usage: https://www.youtube.com/watch?v=10SMY_ewGWc

Thoth - Remake

<https://github.com/Thoth2023/thoth-remake>

Contributed as **full stack developer** for Thoth.

Thoth is a powerful tool to support collaborative systematic reviews. Developed as a multi-platform solution, Thoth aims to automate important parts of the systematic review process, facilitating and streamlining the work of researchers and professionals involved in this type of study.

Tech Stack: PHP, Laravel