

# Alejandro Mendoza

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## SKILLS

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**Frontend:** HTML5, CSS3, JavaScript, React, Bootstrap, Tailwind CSS

**Backend:** Node.js, Python, Express.js, FastAPI, MongoDB

**Mobile:** Flutter, Dart, Android Studio, Firebase

**Tools:** Git, Cursor, Firebase (Auth, Firestore, Storage, Realtime DB)

## EXPERIENCE

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### Full Stack Developer, Automated Trading System – Personal Project

August 2025 – Present

- Developing automated cryptocurrency trading platform with real-time web dashboard, implementing multiple trading strategies (RSI Momentum, Keltner Pullback, Multi-timeframe) using Python, FastAPI, and Binance API integration
- Built comprehensive market sentiment analysis system integrating multiple data sources (Reddit, Twitter, news, influencers) with VADER sentiment analysis, Pandas, and NumPy for data processing and insights
- Implemented secure backend architecture with PostgreSQL and SQLAlchemy, featuring AES-128 encryption for sensitive data, PBKDF2 password hashing, and optimized SQL queries with indexes for high performance
- Developed real-time frontend dashboard using React 18, TailwindCSS, Chart.js, and Framer Motion, displaying live trades, statistics, and interactive charts with WebSocket connections
- Created backtesting system with historical data analysis, performance metrics calculation, and intelligent bot rotation based on market volatility and conditions
- Deployed production-ready application using Docker and VPS with Uvicorn, implementing comprehensive logging, monitoring systems, and automated compound interest calculations

### Mobile App Developer, BOVIFrame Project – Remote

May 2025 – Ended

- Developed mobile application for livestock evaluation using EPMURAS system with Flutter and Dart, implementing complete Firebase integration (Authentication, Firestore, Storage, Realtime Database) for data management and user sessions
- Implemented image and PDF handling functionality, custom charts visualization, and local session storage to enable offline data access and seamless user experience
- Built report generation system for individual and group animal evaluations, featuring custom navigation menus and modern UI design principles
- Designed and developed responsive interfaces with personalized navigation systems, ensuring optimal user experience across different device sizes

### Freelance Full Stack Developer – Remote

2023 – Present

- Created RESTful APIs using Node.js and Express.js with MongoDB, implementing JWT authentication and secure user management systems
- Developed responsive web applications using React, implementing modern UI components with Bootstrap and Tailwind CSS for optimal user experience
- Built interactive frontend applications with JavaScript, integrating third-party APIs and implementing dynamic content rendering

## PROJECTS

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### Automated Trading System | Python, FastAPI, React, PostgreSQL

*In Development*

- Platform for automated cryptocurrency trading with real-time dashboard, multiple trading strategies, market sentiment analysis, and backtesting. Includes encryption of sensitive data, user management, and intelligent bot rotation based on market conditions

### BOVIFrame Mobile App

*Coming Soon*

- Mobile application for livestock evaluation with comprehensive animal management, vaccination tracking, reproductive monitoring, and veterinary report generation
- Built with Flutter and Firebase, featuring offline capabilities, image processing, and data synchronization

### MiniAuth API

[github.com/AlejandroMendoza334/mini-auth-api](https://github.com/AlejandroMendoza334/mini-auth-api)

- Complete authentication system with JWT tokens, user registration, and secure login functionality using Node.js, Express.js, and MongoDB

### E-commerce App

[e-commerce48239.netlify.app](https://e-commerce48239.netlify.app)

- Modern React-based e-commerce application with shopping cart functionality, product management, and responsive design using TypeScript

### Movie API Application

[alejandromendoza334.github.io/apimovie.github.io](https://alejandromendoza334.github.io/apimovie.github.io)

- Interactive movie database with search functionality, API integration, and dynamic content rendering using HTML, CSS, and JavaScript

### Interactive Map Application

[alejandromendoza334.github.io/mapinteractive.github.io](https://alejandromendoza334.github.io/mapinteractive.github.io)

- Interactive map application with polygon drawing, line drawing, lot information management, and map locking features using HTML, CSS, and JavaScript

### My Wallet App

[wonderful-biscuit-92eec4.netlify.app](https://wonderful-biscuit-92eec4.netlify.app)

- Personal finance management application with expense tracking and budget planning built with Flutter and Dart

## EDUCATION

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### Mobile Development – Completed

August 2025 – September 13, 2025

- Programming fundamentals, development tools and environment, syntax and control structures, classes and objects, static typing, asynchronous programming, package management, Git/GitHub
- Mobile applications with Flutter framework, widget structure, UI design, navigation and routes, web services interaction, data access and services, Firebase backend integration, SQLite local storage, APK and IPA file generation, app publishing and distribution

**Web Programming – Completed**

January 2022

- HTML, CSS, JavaScript, Bootstrap, WordPress, Angular

**Logic and Programming – Completed**

January 2023

- Python, JavaScript (Node.js), Dart, Go, Phaser

**Computer Maintenance – Completed**

April 2023

**Computer Science Course, UJAP – Completed**

October 2023