Matheus Santos Souza e Silva

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Software Engineering (Current) - Pitágoras University Unopar Anhanguera (EAD)
Economics (Current) - Pitágoras University Unopar Anhanguera (EAD)

Summary

Highly skilled Full-Stack Software Engineer with experience in developing scalable solutions and microservices architecture. Proficient in a wide range of front-end and back-end technologies, cloud platforms (AWS), and DevOps practices. Currently contributing to significant government projects and developing innovative personal projects involving AI and complex system design. Proven ability to deliver custom solutions tailored to business needs.

Professional Experience

Full-Stack Developer - Freelance 2021

Developed custom web and mobile applications for various clients.
Specialized in creating scalable solutions and implementing microservices architecture.
Provided tailored services and support to help businesses achieve their technical goals.

Full-Stack Software Engineer - Youx Group
Project "Inã" (Alert, Inspection, and Management)

Developing a system for the government of Goiás focused on environmental inspection and management, combating deforestation and animal mistreatment, and protecting endangered species.
Implemented RESTful APIs for robust data integration and seamless communication between frontend and backend systems.
Developed location and GPS functionalities to optimize route design and resource availability for field agents.
Engineered and implemented automated tests using Jest, achieving significant code coverage, ensuring system stability, and reducing bugs in production.
Coordinated performance enhancements and scaling strategies to accommodate growing system demand.
Primary focus on back-end development.
Key Technologies: React Native, Node.js, Vue.js, Java, Spring Boot, PostgreSQL

Feedback Analyzer – Predictive Sales Analysis with AI

Description: Developed an advanced customer feedback analysis system for a business group, leveraging Natural Language Processing (NLP) to convert qualitative data into actionable quantitative insights and forecast sales trends.
Key Technologies: Python, Pandas, Matplotlib, OpenAI API (ChatGPT), Scikit-learn, FastAPI, PostgreSQL, Power BI
Technical Highlights:
Integrated with CRM APIs for automated collection and processing of customer feedback.
Utilized OpenAI GPT models for deep semantic analysis of customer sentiment and opinions.
Implemented machine learning algorithms (Scikit-learn) to correlate feedback patterns with sales performance.
Developed an interactive Power BI dashboard visualizing data insights and growth projections by product/segment.
Created an alert system for early identification of recurring issues in specific products.
Generated automated reports with actionable recommendations for product and marketing teams.

Project "Hello Clips" - Viral Clip Generation Platform

Description: Developed a web/mobile platform (similar to Opus Clip) to automatically identify and generate potentially viral short clips from longer videos.
Key Technologies: React & React Native (Frontend/Mobile), Node.js, Python (FastAPI/Flask - Backend), Celery (Task Queues), Redis, PostgreSQL/MongoDB, OpenAI API (GPT), Whisper, OpenCV, AWS
Technical Highlights:
Implemented a robust and scalable architecture using task queues (Celery) and NoSQL database (MongoDB) for efficient asynchronous video processing.
Integrated AI models (OpenAI API - GPT) for semantic analysis and assessing the virality potential of generated clips.
Utilized the Whisper model for accurate audio-to-text transcription.
Developed video analysis algorithms with OpenCV (including face detection and scene change detection) to aid in generating relevant clips.
Features:
Supports video upload and YouTube URL input.
Allows configuration of parameters (max clip duration, number of clips, target platforms).
Automatically generates clips with captions and virality scores.
Provides an interface for editing captions and refining generated clips.
Challenges Addressed:
Optimized OpenAI API prompts to minimize costs while maintaining high-quality analysis.
Balanced virality analysis accuracy with acceptable processing times.
Efficiently managed the processing workload for long video files.

Project "Slot Machine" - Online Game

Description: Developed an online slot machine focused on a responsive, intuitive, and visually engaging gaming experience. Features a Node.js backend managing game state and an HTML/CSS/JavaScript frontend displaying user interaction results.
Key Technologies: Node.js, JavaScript, HTML, CSS, PostgreSQL
Technical Highlights:
Implemented backend-controlled pseudo-random number generation (PRNG) to determine fair game outcomes.
Developed a transaction system for reliably updating user balances, ensuring data integrity.
Utilized asynchronous communication between frontend and backend for requesting and displaying game results efficiently.
Key Features:
Allows users to initiate a spin and receive detailed results (symbols drawn, prize amount, bonus/freespin indicators).
Enables users to utilize earned bonuses and freespins with accurate value tracking.
Manages the user interface logic, correctly displaying game results including symbol images, winning lines, bonus features (cannons), and avatar animations.

Project "Hello" - Virtual Assistant Application

Description: Developed a virtual assistant Android application using Flutter, integrated with AI to enable voice interactions between the user and other installed applications on the device.
Key Technologies: Flutter, Node.js, JavaScript, TypeScript, Python, AWS
Technical Highlights:
Utilized Artificial Intelligence (AI) for natural language processing (NLP) and executing complex commands in real-time.
Implemented a modular architecture for seamless integration between the Flutter frontend and the backend, ensuring scalability.
Integrated secure authorization and access control management to guarantee data privacy and integrity.

Technical Skills

Front-end: React, React Native, Vue.js, Flutter, JavaScript (ES6+), TypeScript, HTML5, CSS3, Styled-Components, State Management (e.g., Redux, Context API), UI Testing (e.g., Jest, React Testing Library)
Back-end (Familiarity): Node.js, Python, Java, RESTful APIs
Databases (Familiarity): SQL (PostgreSQL, MySQL), NoSQL (MongoDB)
Tools & Concepts: Git, GitHub, Linux, CI/CD, Docker, AWS (deployment/hosting), Responsive Design, Web Performance, UX/UI Principles
Soft Skills: Communication, Adaptability, Creativity, Leadership, Teamwork, Organization, Planning

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