

Pedro Reichow

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WORK EXPERIENCE

Simulated Reality

Software Engineer / Project Manager

Feb 2023 - Present

- Project Manager Responsibilities:
- Planned and coordinated the activities of three specialized teams: backend, frontend for 3D VR experiences, and content creation.
- Ensured project milestones were met by setting clear goals, managing timelines, and facilitating cross-functional team collaboration.
- Conducted regular follow-up meetings to track progress, address challenges, and ensure alignment with project objectives.
- Managed stakeholder communications, providing updates on project status, risks, and deliverables.
- Implemented agile methodologies to improve team efficiency and adaptability.
- Software Developer Responsibilities:
- Utilized a modular design approach focusing on content management, API interactions, and cloud-based operations, enhancing system modularity and maintainability.
- Employed Bootstrap for responsive UI styling, Datatables for dynamic table rendering, and SweetAlert2 for alert pop-ups, creating a seamless and user-friendly interface.
- Ensured compliance with industry standards and regulations using Red Hat OpenShift containers and CI/CD GitOps automation for efficient deployment and management.
- Incorporated Azure Blob Storage and Google Cloud Storage for scalable and secure storage solutions, optimizing cloud-based operations.
- Developed a WebGL interface for rendering 3D content, integrating UnityLoader for 3D rendering and HLS.js for media streaming, enhancing the application's multimedia capabilities.

Qi Tech

Software engineer

Mar 2022 - Feb 2023

- Crafted scalable and efficient Python backend solutions for financial microservices, focusing on bank-as-a-service and credit collaterals.
- Implemented RESTful APIs using FalconAPI and FastAPI, ensuring seamless integration and data flow across services.
- Utilized cloud technologies, including Google Cloud Platform (GCP), for robust and scalable application deployment and management.
- Applied Test-Driven Development (TDD) practices with pytest to maintain high-quality, reliable code and reduce defects.
- Automated routine tasks and messaging with google Pub/Sub processes to enhance operational efficiency and streamline workflows.
- Employed data governance and best practices in software architecture and design patterns to ensure maintainability and scalability.
- Developed interactive and responsive web interfaces using Next.js, enhancing user engagement and experience.
- Integrated frontend components with backend services, enabling real-time data interaction and visualization.

Ruedata Inc

Integrations Engineer

Oct 2021 - Mar 2022

- Adapted and transformed customer legacy data into compatible formats for backend integration, ensuring data integrity and consistency.
- Employed Python and Django to develop robust ETL (Extract, Transform, Load) pipelines for seamless data migration.
- Utilized AWS Lambda for serverless data processing, enabling scalable and cost-effective execution of ETL tasks without the need for managing servers.
- Leveraged DynamoDB for high-performance, scalable, and fully managed NoSQL database solutions to store and retrieve transformed data efficiently.

Kemio

- Developed and deployed RPA solutions for generating invoices on governmental sites, utilizing RESTful and SOAP web services for data communication and integration.
- Implemented web scraping techniques to extract necessary data from various governmental portals, ensuring accurate and timely data retrieval.
- Designed and automated end-to-end invoice generation processes using Python and RPA tools, reducing manual effort and minimizing errors.
- Developed a Retrieval-Augmented Generation (RAG) system using LangChain, ChromaDB, and Python to enhance data retrieval and processing capabilities.
- Integrated LangChain for natural language processing (NLP) and understanding, improving the system's ability to generate relevant and accurate responses.
- Designed and implemented RESTful APIs to facilitate interaction with the RAG system, ensuring easy integration with other applications and services.

Fontes Promotora

Software engineer RPA

Jul 2019 - Jun 2020

- Implemented web scraping techniques to extract and transform data from various sources, ensuring data integrity and accuracy.
- Integrated various backend systems with APIs, ensuring smooth data flow and synchronization across platforms.
- Leveraged AWS services such as EC2 and Elastic Beanstalk for scalable and reliable deployment of applications.
- Utilized MongoDB and PostgreSQL for efficient data storage and retrieval, optimizing database performance.

EDUCATION

Federal University of Santa Catarina

Bachelor in Electrical Engineering - 7 GPA

Jul 2017 - Jul 2019

Federal Institute of Santa Catarina

Technician Electro techniques

Jul 2014 - Jul 2017

- curriculum covers a wide range of subjects over
- eight phases, totaling 4,080 hours, including
- supervised internships. Students learn language,
- mathematics, physics, chemistry, biology,
- technical drawing, computer skills, electrical
- installations, electrical circuits, electrical design,
- industrial controls, power systems,
- electromagnetism, and electronics. The
- curriculum provides a comprehensive foundation
- for a successful career in electrical engineering.
- <http://sites.florianopolis.ifsc.edu.br/eletrotecnica/>

SKILLS

Python ●●●●●

Data engineering ●●●●●

Javascript ●●●●●

- Programming Languages: Python, JavaScript
- Frameworks: React, Node.js, Django, Flask, FastAPI, LangChain
- Technologies: AWS (Lambda, DynamoDB, EC2, Elastic Beanstalk), Kubernetes, Docker, Terraform
- Tools: Git, CI/CD, TDD (pytest, Jest), Web Scraping (BeautifulSoup, Scrapy)
- Databases: MongoDB, PostgreSQL, ChromaDB, MySQL
- Other: Data Science, Machine Learning, RPA, DevOps, Cloud Computing