Luis Duvan Fernando Pinto Diaz

duvanpidi@hotmail.com   +49 17637673234   linkedin.com/in/duvanfernandopintodiaz

https://github.com/FernandoPiDi

Berlin, Germany

Passionate and goal-driven full-stack and AI Software Developer with 3+ years of experience and a bachelor's degree in systems engineering. I excel in building robust, scalable web applications using frameworks such as React and Angular. Currently building tools and AI capabilities with the help of LLMs and LangChain. I am a quick learner and thrive in fast-paced environments, and I am committed to bringing innovative solutions harnessing best practices and clean and efficient code.

Skills: *JavaScript, Python, Typescript , NodeJS, Django, FastAPI, LangChain, Azure, OpenAI, Express, Koa, React, React Native, Angular, NextJS, PostgreSQL, MySQL, MongoDB, graphql, and Docker*

WORK EXPERIENCE

PVSA SAS
Full Stack Engineer

Remote
December 2023 – Present

- Create a pilot internal tool to automate the delivery of status updates to customers via email and internal stakeholders via Slack, harnessing a RAG solution with LangChain Agents, LangGraph, Vector Storage in PGVector, and OpenAI GPT Models.
- Develop dynamic and responsive internal systems to track metallurgical project deliveries using React, TypeScript, and Tailwind CSS, enhancing operational transparency, intra-team communication, and efficiency.
- Integrate internal systems with HubSpot via REST APIs to synchronize sales and metallurgical project data while supporting the sales and up-sales pipeline.
- Architect and implement robust backend solutions and REST APIs using NodeJS and Express, delivering scalable microservices.
- Apply DevOps best practices using Docker, GitHub Actions, and CI/CD pipelines, streamlining deployment processes and achieving zero downtime.

Universidad Industrial de Santander (UIS)
Web Software Developer

Bucaramanga, Colombia
November 2023 – December 2023

- Design, Plan, and execute the end-to-end development of the FIRST (Interfacial Phenomena, Rheology and Transport Simulation) research group website, harnessing React.
- Evaluate, set up, and maintain the infrastructure and networking resources for the website to be deployed.
- Successfully launched the site, resulting in a 15% increase in project consultations and potential leads for the research group.

Universidad Industrial de Santander (UIS)
Professional in quality

Bucaramanga, Colombia
July 2023 - August 2023

- Conduct comprehensive analysis and documentation of academic initiatives for the Faculty of Chemical Engineering, streamlining project execution.
- Implement a project management tool to oversee the progression of the faculty's active projects, improving transparency and visibility over project timelines.

Universidad Industrial de Santander (UIS)
Administrative Assistant

Bucaramanga, Colombia
April 2023 – June 2023

- Provide technical support in the Foreign Languages department, enhancing the operational efficiency of the institute's language learning platforms.

Inmobilio.co
Angular and React software developer

Bucaramanga, Colombia
August 2022 – April 2023

- Develop and maintain new and existing frontend features for the company's in-house real estate CRM built in Angular, improving user experience and interface responsiveness.
- Integrate with the GraphQL relay backend for data exploration capabilities and REST APIs for data transformations, enabling a constant influx of new capabilities to the end-users.
- Implement continuous integration and delivery pipelines on Gitlab-CI, ensuring high-quality gates and stability and speeding up release lifecycles.
- Update and maintain the company's responsive website for real estate exploration and buyer lead generation, ensuring high performance and a constant influx of new sales opportunities.

Enel X
Remote

Systems Engineering Intern
March 2022 – July 2022

- Assist the Digital Hub Area, managing the company's software incidents and facilitating effective communication between cross-functional teams in Italy and India.
- Maintain and support existing sales database solutions and legacy CRM systems for Enel X Colombia, supporting user data needs while enhancing system reliability and performance.

PVSA SAS
Remote

Jr. Javascript Software Developer
January 2021 – February 2022

- Develop and maintain internal web-based solutions in Angular and React to oversee sales and production lifecycles, increasing transparency on cast and forged steel product delivery timelines and enhancing operational efficiency.
- Design and develop express-based REST APIs, ensuring the constant influx of new features.
- Employ agile methodologies to ensure timely updates and feature rollouts, meeting key project milestones.

Universidad Industrial de Santander (UIS)
Bucaramanga, Colombia

Administrative Assistant
October 2020 – December 2020

- Support the procurement process of materials and supplies for engineering projects at the Faculty of Chemical Engineering, optimizing the allocation of resources and project schedules.

EDUCATION

Universidad Industrial de Santander

Bachelor of Science in Systems Engineering

Professional education with an emphasis on software development, Computational and Applied Mathematics, Statistics and data mining, analysis and design of simulation models, software architecture, analysis and design of databases.

Bachelor Thesis: *"Web application for data consolidation and management of academic accreditation of UIS programs."*
- Develop a web application for the Universidad Industrial de Santander to streamline data scrapping, collection, and consolidation to facilitate preparation for the institutional accreditation process for various university programs.
- Implement state-of-the-art artificial intelligence solutions to analyze and classify the collected data points and develop visualization and analytics web-based views for university management to harness.

COURSES

Software Engineering Immersive Course, Codeworks Berlin

Fullstack software engineering.

Mastered the next topics:
- Design and develop responsive and dynamic web applications harnessing TypeScript and frameworks such as Express, Angular, and React.
- Design and develop REST-based microservices in Express and backend for frontend solutions exposing GraphQL interfaces while harnessing diverse data storage solutions (Postgres, MongoDB, Redis),
- Implement end-to-end testing routines, ensuring high quality and stability of course and personal projects.
- Implement JWT and authentication security capabilities, ensuring the application of standard security measures on personal and course projects.
- Harness DevOps best practices and apply them to the course and personal projects, leveraging docker, GitHub Actions, and Continuous integration and delivery capabilities.
- Design and develop scalable system architecture and harness best practices and clean code on full-stack solutions

Fundamentals of accelerated computing with Cuda C/C++, Nvidia Deep Learning Institute

Nvidia Deep Learning Certificate

Receive training in:
- Write code to be executed by a GPU accelerator
- Expose and express data and instruction-level parallelism in C/C++ applications using CUDA
- Utilize CUDA-managed memory and optimize memory migration using asynchronous prefetching
- Leverage command-line and visual profilers to guide your work
- Utilize concurrent streams for instruction-level parallelism
- Write GPU-accelerated CUDA C/C++ applications and refactor existing CPU-only applications using a profile-driven approach

LANGUAGES

- Spanish: native language
- English: B2 (speaking, reading, writing)
- Portuguese: A1

PROJECT SHOWCASE

GitHub Analytics

Monorepo is built with NX, containing a FastAPI backend and a React frontend. It generates Recharts visualizations based on the user's natural language input and dynamically queried data from the GitHub GraphQL API (commits, PRs, and issues). The Charts are generated by an AI multi-agent implementation in LangChain and LangGraph.

Stack: *Python, FastAPI, Langchain, LangGraph, Azure OpenAI, TypeScript, React, NX, GraphQL, Docker*
URL: https://github.com/FernandoPiDi/GitHub-Analytics.git

Uber-Clone

Full-stack mobile app built with React Native for the UI, Google Maps for directions, Stripe for payments, and serverless Postgres for the database. It uses TailwindCSS for a modern and professional design.

Stack: *TypeScript, React, React Native, Expo, Clerk, Stripe, Google Maps, Postgres with NeonDB*
URL: https://github.com/FernandoPiDi/uber-clone.git

SpotWise

Mobile app that uses users' current location to display relevant information about nearby places, such as historical facts, through Google Maps API and with summaries generated with Azure OpenAI. It automatically identifies and showcases the most relevant sites nearby.

Stack: *TypeScript, Express, React Native, Expo, Google Maps, LangChain, Azure OpenAI, GitHub Actions, Docker*
URL: https://github.com/FernandoPiDi/SpotWise.git

StoreIt Cloud

A storage management and file sharing platform that lets users effortlessly upload, organize, and share files. Built with the latest Next.js 15 and the Appwrite Node SDK, utilizing advanced features for seamless file management.

Stack: *React 19, Next.js 15, Appwrite, TailwindCSS, ShadCN, TypeScript*
URL: https://github.com/FernandoPiDi/StoreIt_Cloud.git