

Mario Briseño

Senior Software Engineer

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EDUCATION

Universidad Autónoma de Nuevo León

Bachelor of Engineering - Mechatronics

Thesis: Analysis of MRI brain imagery through computer vision techniques.

Monterrey, Mexico

Aug 2012 - Jul 2017

EXPERIENCE

Senior Associate *Python3, Starlette, Postgres, Airflow, Azure Functions, Databricks*

Oct 2024 - Mar 2026

PwC Acceleration Center

Remote

Worked as a senior backend engineer on a distributed data platform that collected, processed, normalized, and served blockchain transaction data for cryptocurrency audit and reporting.

- Led the design and development of a scalable Azure Durable Functions orchestration system, replacing legacy Airflow DAGs and accelerating data-provider onboarding to our report generation system.
- Built version-aware Airflow workflows to migrate legacy crypto assets to new data providers while minimizing changes to executor and orchestrator services.
- Developed and maintained Databricks ETL pipelines to ingest, normalize, and transform blockchain block and transaction data sourced from self-hosted nodes and third-party data providers.
- Built Python integrations for onboarding new blockchain networks, cryptocurrencies, and external data providers into existing ingestion workflows.
- Mentored junior engineers through code reviews, technical guidance, and architecture discussions.

Software Engineer *Python3, AWS, Blockchain, Postgres, RabbitMQ, Flask, IaC, CI/CD*

Mar 2021 - Jun 2024

KU Leuven / Effex

Belgium, Remote

Joined the founding engineering team of a KU Leuven spin-off building a SaaS platform for mathematical optimization models used by industrial R&D teams. Owned the backend, the cloud infrastructure, deployment automation, and data layer.

- Designed, built, and maintained the platform API, including authentication, notifications, licensing, subscriptions, and access control.
- Designed and built the platform's AWS infrastructure, containerizing services on ECS and automating multi-environment deployments for backend, frontend, and database changes using CodePipeline, ECR, and CloudFront.
- Implemented version-controlled AWS CloudFormation templates to accelerate infrastructure changes and provision custom demo applications for research and sales teams.
- Designed and implemented an asynchronous processing system with Amazon MQ and Celery for model performance comparisons, enabling non-blocking long-running jobs.
- Built pipelines for importing large proprietary datasets into PostgreSQL and optimized schemas and queries supporting the platform's model repository.

Software Engineer *Python3, Golang, Postgres, Django, Ethereum*

Freelance

Sep 2020 - Mar 2021

Monterrey, Remote

- Built a Django and PostgreSQL backend for a medical appointment scheduling application.
- Developed a blockchain data ingestion service in Go for collecting and processing cryptocurrency data.

Software Engineer *Python3, Golang, Solidity, MySQL, AWS, CI/CD*

Jun 2018 - May 2020

Alteum

Monterrey, Mexico

Worked as a backend engineer at an early-stage cryptocurrency exchange, building services and infrastructure supporting blockchain transaction processing and exchange operations.

- Developed Python backend services supporting exchange functionality, blockchain integrations, and new cryptocurrency networks.
- Owned AWS infrastructure, databases, application deployments, and server maintenance.
- Developed and deployed ERC-20 and ERC-721 smart contracts to Ethereum mainnet for client token launches.

Software Engineer *Python3, Javascript, Ansible, Docker*

Enroute

May 2017 - May 2018

Monterrey, Mexico

Contributed to an internal Python framework for automating tests across client projects.