Pedro Arnedo

Principal Software Engineer

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Summary

Software Engineer with over 12 years of experience building and scaling distributed systems, leading cloud-native architecture modernization, and growing high-performing engineering teams. I specialize in Python (asyncio) and C++, with deep expertise in microservices, observability, and developer experience. Passionate about designing reliable, scalable systems and mentoring engineers in Agile environments. Proven success delivering impact in fast-paced, cross-functional, and remote teams.

I have dual Spanish-American citizenship, currently based in Spain and open to international opportunities.

Experience

May 2022 – Present

Principal Software Engineer, *Scuba Analytics*, Boston, MA (Remote)

- Implemented and alerting and monitoring system able to send insights to diverse patforms like Slack or MSteams. The system included several API endpoints, a MYSQL DDL, a guaranteed delivery subsystem and customer documentation.
- Authored technical documentation and architecture reviews. Lead a python guild, and coordinated several functional discoveries for new features, going from product discovery to deploymnet in production.
- Improved performance of the REST APIs by implementing a custom caching mechanist using redis and in-memory caching. Improving by several orders of magnitude the performance and response time of the APIs.
- **Tech Stack:** Python 3.9+, Redis, Python asyncio, SQL

July 2020 – April 2022

Senior Software Engineer, *Scuba Analytics*, Boston, MA (Remote)

- Pioneered engineering efforts as the first hire, reverse-engineering and documenting legacy systems to enable scale.
- Led technical hiring and guided a team of 18 engineers, maintaining strong engineering culture and high standards.
- Led API redesign, going from a monolitic API to a more granular REST API design, improving maintainability and monitoring.
- Integrated BigQuery for data ingestion in the current ingestion subsystem, broadening the analytics platform's reach. Giving Scuba the posibility to get both intraday and daily data from tables like the ones generated by GA4.
- **Tech Stack:** Python 3.9+, MySQL, BigQuery

February 2018 – July 2020

Senior Solution Architect, *Localytics*, Boston, MA

- Designed and built a scalable cloud-native ETL pipeline handling 100K+ files/day (AWS Lambda, Fargate).
- Built enterprise integration between Jira and Salesforce, reducing manual work nearly completely.
- Led product development of basket analysis system using algorithms like A-Priory, boosting recommendation accuracy and helping sales open more leads.
- **Tech Stack:** Python, Flask, AWS (Lambda, ECS, API Gateway), Snowflake, Terraform, Docker

August 2014 – January 2018	**Senior Software Developer**, *Amadeus North America*, Boston, MA
	○ Mentored over 20 junior engineers and conducted senior technical interviews.
	○ Main developer of the Rate Management System for IHG, processing millions of daily rate calculations.
	○ I put in place a production monitoring platform with ELK stack using data from a custom C++ logger class that computedfunciton execution times using RAII that ended up beign widely used across multiple departments for performance monitoring.
	○ Developed an internal DB visualization tool using javscript, python and d3.js that reduced debugging time considerably.
	○ **Tech Stack:** C++14/17, STL, Boost, Python, Oracle, ELK Stack, d3.js, Linux
September 2010 – July 2014	**Software Developer**, *Amadeus S.A.S*, Nice, France
	○ Led Unified Search consolidation project, improving response times by 40%.
	○ Conducted a refactor of 30+ services to implement API versioning.
	○ Conducted security audits and performance optimization for key middleware.
	○ **Tech Stack:** C++11, Oracle, Python, Shell scripting, Linux, Git

Side Projects

April 2025 – Present	**Web developer**, *Virikes*, Spain
	○ Delivered a website for dental clinic in Next.js and deployed it in Vercel. (`https://abaddental.vercel.app`)
	○ Learned by doing a website for job tracking management in Next.js with a FastAPI python backend and deployed it in Vercel.(`https://jobsherpa.vercel.app`)
	○ **Tech Stack:** Next.js, React.js, SQL, python FastAPI, Vercel
October 2012 – November 2016	**Founder**, *Scan And App*, Nice, France
	○ Android app and backend system that allow users to generate QR codes and set them up as alerts, chats or redirects for a website.
	○ In charge of all the development (Android application, backend services and database management
	○ **Tech Stack:** Python, Tornado, mysql, Android Javascript.

Skills

Languages	Python (asyncio), C++14/17, JavaScript (React.js), Next.js
Cloud & DevOps	AWS (Lambda, ECS, API Gateway), Docker, Kubernetes, Terraform
Data & Storage	PostgreSQL, BigQuery, Snowflake, Redis, MySQL, Oracle
Frameworks & Tools	Flask, Tornado, Bootstrap, D3.js, Jenkins, Git, ELK, Jira
Practices	Agile (Certified Scrum Master), CI/CD (Continuous Integration / Continuous Delivery), TDD (Test-Driven Development), System Observability

Education

2009–2010	**Master's Degree in Security, Cryptology and Coding of Information Systems**, *ENSIMAG*, Grenoble, France
2008–2010	**Double Degree, Information Systems Engineering**, *ENSIMAG*, Grenoble, France
2001–2008	**Computer Engineering**, *Universidad Politécnica de Madrid*, Madrid, Spain

Certifications & Training

2017	Management Development for New Managers - Amadeus
2015	MongoDB University Certification
2014	Certified Scrum Master (CSM)
2013	Oracle Performance Optimization

Languages

Spanish	Native
French	Bilingual
English	Fluent

Keywords

Keywords	Python, C++, Docker, AWS Lambda, Terraform, Microservices, Event-Driven Architecture, PostgreSQL, Redis, MySQL, Snowflake, Git, CI/CD, TDD, Agile, Distributed Systems, Vue.js, Flask, System Observability, Kubernetes, BigQuery, API Gateway, D3.js, Jenkins, Jira, ELK Stack