

# Pedro Arnedo

## Principal Software Engineer

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### Summary

Seasoned Software Engineer with 12+ years of experience building high-performance distributed systems and scalable backend architectures. Expert in Python ecosystem with deep experience in asyncio, concurrent programming, and system optimization. Proven track record in building engineering teams from ground up, leading technical initiatives, and transforming legacy systems into modern architectures. Known for combining technical excellence with strategic thinking to deliver robust solutions that drive business growth.

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### Professional Experience

2020– **Principal Software Engineer**, *Scuba Analytics*, Boston, MA

- Present
- Pioneered engineering efforts as the first engineer, successfully reverse-engineering and documenting existing codebase to enable team scaling
  - Led technical hiring initiatives, growing engineering team from 1 to 18 members while maintaining high technical standards and team culture
  - Architected and implemented comprehensive alerting system, enabling proactive monitoring of customer-defined metrics
  - Spearheaded complete API redesign, improving system maintainability and reducing client integration time by 40%
  - Enhanced data ingestion system by implementing BigQuery integration, expanding platform capabilities and increasing data source options for customers
  - Created extensive technical documentation, facilitating knowledge transfer and reducing onboarding time for new team members

**Technology Stack:** Python 3.9+, asyncio, MySQL, BigQuery, Redis

2018–2020 **Senior Solution Architect**, *Localytics*, Boston, MA

- Architected and implemented cloud-native data processing pipeline handling 100K+ daily file uploads using AWS Lambda, ECS Fargate, and Snowflake
- Led development of basket analysis system using a-priori algorithm, increasing customer recommendations accuracy by 35%
- Designed and built enterprise integration system synchronizing data between Jira and Salesforce, reducing manual work by 80%
- Implemented throttling system for API calls, reducing infrastructure costs by 40% while maintaining SLAs

**Technology Stack:** Python, Flask, Vue.js, AWS (Lambda, ECS Fargate, API Gateway), Snowflake, Terraform, Docker

2015–2018 **Senior Software Developer**, *Amadeus North America*, Boston, MA

- Led development of Rate Management System for IHG, handling millions of daily rate calculations
- Created performance monitoring system using ELK stack, improving system reliability by 25%
- Mentored 20+ junior developers and conducted technical interviews for senior positions
- Developed database visualization tool reducing debugging time by 50%

**Technology Stack:** C++14/17, STL, Boost, Python, Oracle, ELK Stack, Jenkins, Linux

2010–2015 **Software Developer**, *Amadeus S.A.S*, Nice, France

- Spearheaded Unified Search consolidation project, improving response times by 40%
- Implemented versioning system supporting 30+ service combinations
- Led security audit and optimization of core middleware components

**Technology Stack:** C++11, Oracle, Python, Shell scripting, Linux, Git

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### Technical Skills

Languages Python (asyncio), C++14/17 (STL, Boost), JavaScript  
Cloud & DevOps AWS (Lambda, ECS, API Gateway), Terraform, Docker, Kubernetes  
Databases PostgreSQL, Snowflake, Oracle, MySQL, BigQuery, Redis  
Frameworks Tornado, Flask, Vue.js, Bootstrap, D3.js  
Methodologies Scrum (Certified), Kanban, Agile Development

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## Education

2009–2010 **Master 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

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## Certifications

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

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## Languages

Spanish Native  
French Bilingual  
English Fluent