

# Pedro Arnedo

## Principal Software Engineer

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### Summary

Seasoned Software Engineer with 12+ years of experience architecting and delivering scalable solutions. Specialized in cloud-native applications, distributed systems, and enterprise software development. Proven track record in building engineering teams, leading technical initiatives, and mentoring developers.

### Professional Experience

- 2020–  
Present **Principal Software Engineer**, *Scuba Analytics*, Boston, MA
- 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
- 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
- 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%
- 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

### Technical Skills

Languages C++14/17 (STL, Boost), Python, JavaScript

Cloud & DevOps AWS (Lambda, ECS, API Gateway), Terraform, Docker, Kubernetes

Databases Snowflake, Oracle, MySQL, BigQuery

Frameworks 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