



# Raul Medeiros Pérez, PhD

## Software Engineer

I hold a PhD in Computer Engineering from the University of the Basque Country (UPV/EHU). I specialize in highly variable systems, known as Software Product Lines (SPL). My experience focuses on the maintainability and evolution of these systems, and on assisting decision-making processes through software visualizations. The skills developed during my PhD allow me to tackle complex challenges both scientifically and industrially.

### » Contact Information



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### » Education

2019 - 2024 **PhD in Computer Engineering**, University of the Basque Country  
2018 - 2019 **Master in New Technologies in Computer Science**, University of Murcia  
2013 - 2017 **Bachelor in Computer Engineering**, University of the Basque Country

### » Skills

**Programming** Java (Spring), JavaScript, HTML, CSS, Python, **Sept. 2024 - Today**  
**Tools and Technologies** LaTeX, SonarQube, GitHub Actions, Jenkins, Docker, SQL Databases, pure::variants  
**Methodologies** Scrum, Kanban, Design Science Research  
**Languages** English, Basque, Spanish, **Apr. 2023 - Jul. 2023**  
**Others** Proactivity, Leadership, Continuous Learning

### » Experience

**Sept. 2024 - Today** Technology Consultant, LKS Next S. Coop  
**Role:** Currently enrolled in GenAI related projects, aiming to automate repetitive non-valued tasks for our customers.  
**Sept. 2019 - Aug. 2024** Predoctoral Researcher - Funded by the Ministry of Science and Innovation at the University of the Basque Country (UPV/EHU), Donostia  
**Role:** Conducting a doctoral thesis on the evolution of software product lines with visual interventions.  
**Apr. 2023 - Jul. 2023** Research Stay at Pure-Systems GmbH, Magdeburg, Germany  
**Role:** Visualization project to evaluate changes in the product variant portfolio over time.  
**Dec. 2017 - Sept. 2018** Junior Programmer, Indaba Consultores S.L., Donostia  
**Role:** Migration of a web platform to Hippo CMS and REST services, using Jenkins for automated deployment and testing.  
**May. 2017 - Sept. 2017** Junior Programmer, Ampo S. Coop, Idiazabal  
**Role:** Development of a database monitoring system in a microservices architecture for the Final Degree Project.

## » Interests

- Books** Software Engineering, Entrepreneurship, Personal Finance, People Management
- Sports** Football, Cycling, Trail Running, Padel
- Others** Reading Fantasy and Science Fiction books

## » Scientific Publications

- Journals**
1. **Visualizing the customization endeavor in product-based evolving software product lines: a case of action design research.** Empirical Software Engineering, Volume 27, 75 (2022)
  2. **How can feature usage be tracked across product variants? Implicit Feedback in Software Product Lines,** Journal of Systems and Software, 2024, 112013
  3. **Visualizations for the evolution of Variant-Rich Systems: A systematic mapping study,** Information and Software Technology, Volume 154, 2023, 107084
- Conferences**
1. **Unleashing the Power of Implicit Feedback in Software Product Lines: Benefits Ahead.** 2023. In Proceedings of the 22nd International Conference on Generative Programming: Concepts and Experiences