

# Sergio Amortegui

Software Engineer



## PROFILE

Software Engineer with a focus on machine learning techniques and algorithmic development, actively contributing to the creation of high-quality solutions and the design and development of products leveraging machine learning with a direct impact on people's lives through innovative and scalable solutions. Committed to collaboration and teamwork, as well as to the creation of scalable architectures and the writing of robust code that adds value and positively impacts people's lives. Possesses expertise in machine learning techniques including supervised, unsupervised, and reinforcement learning, as well as data preprocessing and feature extraction using TensorFlow, Matplotlib, Pandas, and NumPy. Proficient in deep learning frameworks including TensorFlow and Keras, with experience in data augmentation and classification tasks.

## MAIN SKILLS

**Language:** Spanish (Native), English (C1), French (A1)

**Management:** Jira, Confluence, Bitbucket, Git, GitHub, Scrum, CI/CD

**Technical:** Typescript, Python, Dynamic Programming, SQL, Pandas, Numpy, statistics, probability

**Non-Technical:** Leadership, Teamwork, Mentoring, Problem Solving, Innovation, Creativity

**Hobbies:** Calisthenics, Gymnastics, Tennis, Mountain Biking, Hiking

## EXPERIENCE

### M.I.S Developer Jr

Teleperformance

Full Time (40h/w)

Jan 2022 - Jul 2024

- Implemented software solutions to reduce complexity and workload in the software factory, leading to lower development time, improved understanding, and secure software production.
- Engineered efficient automations for creating chromium-based web extensions, significantly cutting down project timelines from weeks and months to days.
- Directed teams to adopt current technologies, achieving a 66% improvement in Typescript proficiency through focused training.

### Software Developer PAT

Unisabana Living Lab

Part Time (20h/w)

July 2022 - July 2023

- Provided secure and high-quality solutions for managing user behavior, interactions, and communications.
- Redesigned and implemented the database to optimize data creation, modification, and readability, ensuring efficient management and stability for heavy data requests.
- Redesigned and implemented the backend with Typescript, achieving type safety and establishing a scalable, maintainable architecture. Introduced new features for easier and faster endpoint creation, along with enhancements to security and performance.

## EDUCATION

### Universidad de La Sabana

B.S in Informatics Engineering, GPA: 4.2/5

January 2019 - December 2023

**Relevant Coursework:** Data Structures and Algorithms, Software Architecture, Artificial Intelligence, Machine Learning, Deep Learning, Business Intelligence, Information Security, Probability, Multivariable Calculus.

**Relevant Experiences:** Member of the Machine Learning Investigation Team, Third-place finisher in the Sabana Hack competition, UI/UX Challenge second-prize winner.

## LEADERSHIP & ACTIVITIES

### IEEE Universidad de La Sabana

Vice-Chair

January 2022 - July 2023

- Led the planning and execution of various talks, events, and initiatives aimed to improve IEEE recognition within the University.
- Organized successful events and campaigns, forging partnerships and alliances with the University and IEEE affiliated institutions.
- Managed information distribution, community events, marketing campaigns, and training programs in software development for the "Computer Society" chapter.

## PROJECTS

### CSM & Framework for Web Extensions

Teleperformance August 2023 - December 2023

- Engineered a multi-tenant, client-specific management system for chromium extensions, incorporating information, agents, roles, and more. Customized segments for each client's business. Implemented access and modification restrictions based on Profiles and eased report creation through the system's change history.
- Established a framework for chromium extensions using React.js and Typescript. Introduced console automations for simplified base configurations and predefined functionalities, reducing the developer's workload.

## ADDITIONAL SKILLS

**Professional:** Scrum, Kanban, Analytical thinking, Strategic Planning, Conflict Resolution, Decision-Making, Effective communication, Adaptability, Delegation, and Planning.

**Frontend:** HTML, CSS, JavaScript (ES6+), Redux, Tailwind, Sass, Webpack, testing, Web Performance Optimization (WPO), Search Engine Optimization (SEO), Server Side Rendering (SSR), Static Site Generation (SSG), WCAG guidelines, ARIA roles.

**Backend:** C#, GO, Golang, PHP, ASP.NET, Laravel, RDBMS, NoSQL, RESTful APIs, AWS, Docker, Kubernetes, OAuth, Git, CI/CD, Agile methodologies, Architecture, Architecture Design.

**Machine Learning:** Applied Statistics, Statistics, Supervised, Unsupervised, Reinforcement Learning, Machine Learning techniques.

**Data Analysis:** EDA, Manipulation, Cleansing, TensorFlow, Matplotlib, Pandas, NumPy.

**Deep Learning:** TensorFlow, Keras, Data Augmentation, Classification.