

# Juan José Alonso

Software Engineering Student

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## Profile

Proactive Software Engineering student with a strong foundation in AI Engineering, Machine Learning, and Agent Development. Proven ability to lead cross-functional teams and deliver impactful solutions, including developing a GenAI-powered compliance review agent that reduced product review time by 89% at Cencosud. Passionate about leveraging cutting-edge technologies to build user-centric products that align business goals with market needs. Skilled in both technical implementation and effective communication, ensuring seamless collaboration and execution of innovative projects.

## Areas of Knowledge

AI Engineering - Machine Learning - Data Science - Agent Development - Cloud Computing (AWS) - Data Analysis - Databases - Product Management - UI/UX Design

## Education

**BSc Software Engineering** (*Pontificia Universidad Católica de Chile*)      **Santiago, CL** 2021-2026 (*Expected*)  
Relevant Courses: Artificial Intelligence, Data Structures and Algorithms, Recommender Systems, Data Mining, Detailed Software Design, Databases, Web Technologies and Applications

## Experience

- “The Masters” Competition Winner** (*Oxford International*)      **London, UK** 04/2019
- Won 1st Place for developing a business proposal for a subscription-based recycling service.
  - Led the logistics team, to review the technical feasibility of the project through the optimization of processes related to the transportation of the service.
  - Maintained cohesion and a positive atmosphere within the team during times of crisis.
- Innovation & Entrepreneurship Committee Member** (*CAi @ UC Chile*)      **Santiago, CL** 06/2021 - 12/2021
- Helped develop multiple activities, related to Innovation & Entrepreneurship, in order to engage with the engineering school community.
  - Authored the interview questions for a dynamic podcast featuring Karim Pichara, CTO and Co-Founder at NotCo, a Chilean unicorn developing AI inspired foods.
- TA @ Engineering Challenges** (*Engineering School @ UC Chile*)      **Santiago, CL** 03/2022 - 07/2022
- Supervised a group of 90 students through a crucial, early-stage engineering course in our Engineering School.
  - Mentored three student groups throughout the semester, culminating in one group winning first place and another second place at the project fair, which featured 900 competitors.
  - Received a flawless performance review, highlighting exceptional leadership and organizational skills
- Tutoring Coordinator** (*Repunta*)      **Santiago, CL** 06/2023 - 12/2024
- Helped connect more than 30 teachers with school students who are in need of tutoring.
  - Recorded each tutoring session details, so the parents are aware of the performance and improvement of their children.
- OSUC’s Developer** (*OSUC @ UC Chile*)      **Santiago, CL** 03/2024 - 12/2024
- Helped develop various open-source projects directed at students from UC Chile.
- Intern** (*Williamson Industrial S.A.*)      **Santiago, CL** 07/2024 - 08/2024
- Automated the creation of multiple sales reports for use in board meetings.
- TA @ Artificial Intelligence** (*Engineering School @ UC Chile*)      **Santiago, CL** 07/2024 - Present
- Served as a teaching assistant for the course in both the second semester of 2024 and the first semester of 2025, contributing to the academic support and development of students.
  - Conducted several classes for 160 students on the fundamentals of artificial intelligence, including ASP, SVM, Gradient Boosting, and Decision Trees.
  - Created exams, assignments, and quizzes, which I also graded, to assess student performance.

- Researcher (Engineering School @ UC Chile)

Santiago, CL 07/2024 - Present

  - Actively contributed to a PhD student's research project, focusing on evaluating Large Language Models (LLMs) for automated security code reviews.
  - Analyzed and labeled thousands of open-source commits and code reviews, enhancing my expertise in identifying software security vulnerabilities.
  - Co-authored a research paper submitted to a prestigious software engineering conference, with potential publication expected by the end of 2025.

- Software Engineering for AI Applications Intern (Cencosud S.A.)

Santiago, CL 01/2025 - 03/2025

  - Developed and deployed a Retrieval-Augmented Generation (RAG) agent leveraging GenAI to automate compliance reviews of marketplace products for Paris Marketplace, enhancing review scalability and accuracy.
  - Reduced average product review duration from 18 to 2 days ( 89% improvement), significantly increasing operational efficiency and accelerating time-to-market.

- Skills

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- Programming Languages:** Python, C/C#, JavaScript, Ruby, SQL, R, Clingo (ASP), Wolfram Language
  - Data Visualization:** Pandas, Microsoft Power BI, R Studio, Excel
  - Frameworks:** Django, Flask, Langchain, Mage AI, PyQt, Ruby on Rails, .NET, Tailwind CSS
  - Machine Learning:** PyTorch, scikit-learn, TensorFlow
  - Tools:** AWS, Git, Docker, Redis, LaTeX, Postman, Valgrind
  - AWS Services:** EC2, S3, Lambda, Step Functions, Event Bridge, Bedrock, Sagemaker
  - Soft Skills:** Leadership, Teamwork, Public Speaking, Presentation, User-Oriented Thinking, Active Listening
  - Traits:** Ambitious, Eager to Learn, Passionate, Perfectionist, Joyful

- Languages

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- Spanish** [Native]
  - Catalan** [Intermediate] - B1
  - English** [Advanced] - C1