

# Milan Joseph Weibel Bacovic

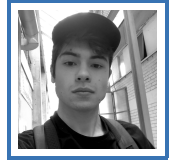
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🌐 <https://weibac.github.io>

🐙 weibac



## Education

Pontificia Universidad Católica de Chile

**Título** Industrial Computación

**Major** Computación y Sistemas de Información Track Computación

**Minor** Industrial

**Certificado Académico** Ciencia Política

Additional Education

ML4Good Bootcamp Brasil 2024

Awards

Distinguished-grade score in the Fundamentals of Engineering Exam

## Languages

**English** Advanced. Native-equivalent proficiency.

**Spanish** Native.

**French** Intermediate.

## Technical Skills

**Technologies** python, pytorch, einops, git, linux, nix, docker, bash, neovim, c, sql, ruby on rails, react, claude

**Preferred Paradigm** Functional programming (as implemented in lisp or haskell or roc)

**Development Techniques** test-driven development, agile development, vibe coding

**Domain Knowledge** debugging, software requirements red teaming, developer psychology

## Relevant Coursework

2022-2 IIC2233 Programación Avanzada  
2023-1 IIC2613 Inteligencia Artificial  
2023-1 IIC2133 Estructuras de datos y algoritmos  
2023-2 IIC2333 Sistemas Operativos y Redes  
2023-2 IIC2343 Arquitectura de Computadores  
2023-2 IIC2413 Bases de Datos  
2024-1 IIC2143 Ingeniería de software  
2024-2 IIC2513 Tecnologías y Aplicaciones Web  
2025-1 IIC2552 Taller de Programacion Avanzada  
2025-1 IIC3697 Aprendizaje Profundo

## Teaching Experience

**Teaching Assistant** IIC1103 Introducción a la Programación

**Program lead, session facilitator**, AI Safety Fundamentals @ UC Chile

## Graphic Design

**Portfolio Samples** earthskull.png, aisuc-batalla-chatbots.png, aisuc-nvidia-1.png, aisuc-nvidia-2.png  
Additional examples available on request

## Administrative Skills

Deep understanding of the interpersonal and self-management challenges faced by developers, especially neurodiverse ones. Consequently, I am good at managing them.

Strong written communication abilities. I aim to always be candid and straight-forward. Doing so helps build trust.

## Publications & Research

No formal publications yet, but currently collaborating with Sohaib Imran from the University of Lancaster on evaluating the bayesian inference capabilities of Large Language Models (LLMs). Previously, wrote up some informal notes on the multilingual capabilities of LLMs: <https://www.lesswrong.com/posts/TZPbm...>

## Development Philosophy

A synthesis of Agile and Test-Driven Development adapted for the era of LLMs. Focus on thorough requirements analysis and documentation first, operationalized through comprehensive tests. Advocate for functional programming paradigms to enhance testability and allow for the formal verification of critical components. While LLMs have made code generation cheap, designing robust specifications remains critical. Human developers should focus on requirement capture and specification, while leveraging LLMs for implementation that satisfies well-defined test suites. Developers should shift emphasis from code writing to requirements engineering.

## Preferred Role

My main requirement is to be placed in an environment that will allow me to work according to the development philosophy I have outlined in this document. This means working for a client who won't meddle in technical decisions, and with teammates who agree with the importance of writing correct specifications. A scenario I can see happening and which I want to avoid is me being placed in a tester role, and being resented by my teammates for correctly pointing out that their probably-LLM-written, definitively-written-from-a-confused-spec code is bad. This is why I ask either for an administrator role leading a ragtag team of autists, or for a combined analyst + architect role in a team where the administrator is unlikely to override me.

## Meta

This very cv is an example of my development philosophy. The main document I worked and iterated on was a json file. I then had an LLM write functions to compile it into latex code. I used third-party web software (overleaf) to compile the latex into PDF. I have been iterating on the content by adding to it incrementally and looking at how it compiles into PDF. The LLM has been iterating on the code, based on my feedback. I have had to help it debug a couple times, but it can debug by itself most of the time when provided with the appropriate error messages.

**Source** <https://github.com/weibac/cv>