

# MATHAUS HUBER

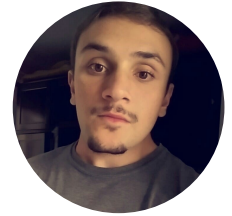
Computer Scientist · Senior Full-Stack Engineer

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🐙 github.com/mathaushuber



## EXPERIENCE

### Sr. Software Engineer

#### Maker Market

📅 Mar 2025 – Present

📍 Pelotas, RS

- Architected and led development of the company's core platform – a scalable marketplace connecting makers, designers, and retailers for personalized products and 3D models.
- Designed clean, high-performance back-end services using **NestJS** and **PostgreSQL**; implemented caching and session management with **Redis**.
- Built front-end interfaces with **Vue.js**, ensuring responsive and accessible UX.
- Provisioned cloud infrastructure on **AWS** using **Terraform**; enforced CI/CD pipelines and automated testing with **Jest**.

### Software Engineer

#### Tibox

📅 Feb 2023 – Mar 2025

📍 São Paulo, SP

- Led full-stack development of *Allert*, the company's flagship product, owning both front-end and back-end layers.
- Technically guided the front-end team across web and mobile applications.
- Delivered features and performance improvements for enterprise clients including **Bradesco Seguros**, **Wood**, **Ocyan**, and **Roche** using **PHP**, **CodeIgniter**, **PostgreSQL**, **JavaScript**, and **jQuery**.
- Developed and maintained hybrid mobile applications using the **Ionic** framework.

### Scientific Researcher

#### CNPq

📅 Sep 2022 – Aug 2023

📍 Pelotas, RS

- Designed and built a **Pest Monitoring System** combining **Wireless Sensor Networks** and **Computer Vision**.
- Developed a web platform with structured dashboards integrating data from smart-farm, smart-city, and smart-campus sensor deployments.
- Exposed REST APIs for registered users; rendered real-time geospatial visualizations using **Leaflet.js**.

### Research Collaborator

#### IA Hub – UFPel

📅 Mar 2022 – Aug 2023

📍 Pelotas, RS

- Implemented classical AI algorithms: blind and informed search, Tabu Search, and competitive search.

## EDUCATION

### M.Sc. Computer Science

#### Federal University of Pelotas

📅 Mar 2024 – Present

### B.Sc. Computer Science

#### Federal University of Pelotas

📅 Mai 2018 – Nov 2022

## LANGUAGES

Portuguese



English



## SKILLS

### Languages

TypeScript

JavaScript

PHP

Python

C/C++

Java

### Frameworks & Libraries

NestJS

Vue.js

React

Node.js

Ionic

CodeIgniter

### Databases

PostgreSQL

MySQL

SQLite

Redis

### Cloud & DevOps

AWS

Terraform

Docker

CI/CD

### Tools & Other

Git

Jest

HTML

CSS

Leaflet.js

MATLAB

## CERTIFICATIONS



### Full-Stack Web Development

Vue.js, PHP, MySQL, JavaScript, CSS, Ionic – Udemy



### NestJS & React.js

Intermediate to Advanced – Udemy

- Built machine learning models including **K-Means**, **KNN**, **Decision Trees**, and neural networks (**MLP** and **CNN**).
- Applied genetic algorithms to optimization problems in academic research contexts.



### **GAMA — Advanced Mathematics Group**

Tutored Calculus and Linear Algebra sessions at UFPel

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## Freelance Developer

### Workana

📅 Jan 2020 – Mar 2022

📍 Remote

- Delivered 20+ projects across e-commerce stores, database optimization, and landing page development.
- Managed full project lifecycle from requirements gathering to deployment for international clients.

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## REFERENCES

### Prof. Dr. Felipe de Souza Marques

@ Federal University of Pelotas

✉ felipem@inf.ufpel.edu.br

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### Prof. Dr. Rafael Piccin Torchelsen

@ Federal University of Pelotas

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## PROJECTS

### Adopetme — Pet Adoption Platform

- Designed and built a mobile-first adoption platform bridging adopters and animal shelters with a focus on trust and usability.
- Prioritized UI/UX quality and security for both adopter and guardian workflows.

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### Nosconectados — IoT Monitoring Platform

[nosconectados.com](https://nosconectados.com)

- Developed a web platform aggregating sensor data from WSN deployments in smart-farm, smart-city, and smart-campus environments.
- Delivered structured decision-support dashboards with geospatial mapping and real-time data feeds.

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## PUBLICATIONS

### 📄 Journal Articles

- T. R. Porto, M. Huber, and W. Costa, "Paralelização do algoritmo full-search para estimação de movimentos em vídeos com openmp," 2022.
- M. Huber, "Análise de linguagens de programação para a resolução do processo de gram-schmidt," 2020.
- M. Huber, "Algoritmo para contagem e análise de leucócitos em imagens de microscópio utilizando matlab," 2019.