

# TOMÁS MENEZES PEREIRA

Founder, Fullstack and ML Engineer with 5+ years of experience developing AI systems, leading tech teams, and building data-driven solutions that create measurable business outcomes. Recently co-led an eight-figure GDV real estate project exit.

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## TECH STACK

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- **Languages:** TypeScript · JavaScript · Python · SQL · MATLAB
- **Frontend:** React · Vite · Next.js · TanStack (Start, Router, Query, Table) · SWR · Zod · Zustand · Drizzle ORM · Better Auth · Tailwind CSS · Motion · Vitest · Playwright · Deck.gl · React-Native · Expo · Plasmio
- **Backend, Infra:** Node.js · Hono · PostgreSQL · Redis · pgvector · AI SDK · Docker · BullMQ · Trigger.dev · AWS (API Gateway, S3) · GCP (Cloud Run) · Vercel · Docker · Github Actions · PostHog
- **AI/ML:** Claude Code · TensorFlow · scikit-learn · scikit-optimize · Pandas · Jupyter
- **Other tools:** Git · Supabase · Cloudflare · Upstash · Stripe · Linear · Jira · N8N · Figma

## EXPERIENCE

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### FOUNDING PARTNER, TECH LEAD – 2B2 INVESTMENTS

2021 – PRESENT

Lisbon, Portugal

#### Fullstack Product Engineering

Developed and sold B2B proptech applications to automate and improve real estate data aggregation, processing, and analysis, saving new development project teams 150+ hours per month, increasing project throughput by 40%+:

- AI SDK multi-agent systems for automated workflows, including top-N project retrieval and comparison, with online data completion via LLM-generated search queries, marketing copy generation, and data distribution to 10+ project managers;
- New development data intelligence fullstack tools based on multi-region, proxy-enabled scrapers, with historic property data analysis, realtime KPIs, CDC, filtering, alerts and notifications, unlocking access to previously inaccessible actionable insights;
- Automation pipelines, integrating data analysis results directly into team workspaces, eliminating 50%+ of manual analysis and reporting efforts.

#### Strategic AI Consulting

- Advised C-suite executives at two of Portugal's largest real estate companies on the creation of internal tech, data teams, and innovation, creating long- and short-term data, capital and AI strategy roadmaps;
- Guided engineering teams on the creation of proprietary internal ML systems, including multi-objective AVMs, data unification strategies, and data analysis workflows for market opportunity identification and reporting.

#### Real Estate Development

- More than doubled an original estate's value, with a total GDV over eight-figures, by co-leading the development of a 17-unit residential project in Greater Lisbon, Portugal - coordinating contractors, architects, leading digital development, developer partnerships and investor fundraising;
- Currently managing a pipeline of 2 high-value projects, including the development of a multi-villa gated condominium, overseeing fundraising and developer partnerships.

### PRODUCT MANAGER – UNTERNEHMERTUM

2021

Munich, Germany

- Led a team of 3 engineers and 2 designers, working alongside UTUM's core team, to build an open data request platform MVP for the city of Munich, improving data access over the closed-access model in production;
- Shaped product requirements from 20+ problem interviews, usability tests, and experiments conducted with Landeshauptstadt officials, city representatives, open data advocates, open source developers, executives of Munich-based enterprises;

- Owned the full agile (scrum) product development process, from design thinking ideation, pain point mapping, prioritization, opportunity testing, user story creation to prototype implementation and product delivery;
- Facilitated connections within city hall stakeholders and with external enterprises, generating requirements and lists of in-need data.

## INTELLIGENT SYSTEMS RESEARCHER, RECSYS – IS4 LABS

**2019 – 2021**  
Lisbon, Portugal

- Researched deep learning recommender systems for sparse session-based environments;
- Built and benchmarked multiple recurrent (LSTM, Bi-GRU) architectures with Tensorflow, to model user intent through session activity with short and long-term context for impression ranking;
- Created self-attention modules enabling skip-behavior awareness, increasing recall and interpretability via relative sequential event importance modeling;
- Developed a hybrid Bayesian Optimization with Gaussian Processes and Random Hyperparameter Search pipeline suitable for high-dimensional conditional spaces;
- Achieved an 85th percentile result in predicted MRR in the 2019 ACL RecSys Challenge, with compute limited to a single Google Colab GPU instance, without the usage of time-leaking features, validating research quality under strict compute and evaluation constraints.

## PROJECTS

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### SESSIONBLOCKS

**2024**  
sessionblocks.com

- Built and shipped a tab management browser extension for power users, locally handling large sessions with thousands of items;
- The extension allows users to organize tabs with bulk operations (move, delete, suspend), save and persist windows, seamlessly drag and drop items between open and closed windows, filter and find items and duplicates, and export and import local sessions.

## EDUCATION

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### MSc MECHANICAL ENGINEERING – IST

**GRAD 2021**  
Excellence diploma 16/20, Dissertation 18/20

Autonomous and Intelligent Systems, Reinforcement Learning, Optimization and Decision, Computer Vision, Systems Identification, Control Systems

### ADV MSc ARTIFICIAL INTELLIGENCE – KU LEUVEN

**GRAD 2018**  
Leuven, Belgium

Artificial Neural Networks and SVMs, Data Mining, Brain Computer Interfaces, Text-based Information Retrieval

### ADDITIONAL EXPERIENCE

- **Startup Jumpstart, Babson:** Awarded a Santander scholarship for the executive entrepreneurship programme.
- **European Innovation Academy:** Managed a team of four, winning a Nixon Peabody award with an online micro-task platform.
- **National Robotics Team Leader:** Led the Portuguese team in four worldwide RoboCup competitions (Singapore, Istanbul, Eindhoven, João Pessoa); Designed autonomous rescue robots and mentored 50+ students.