PIETER JACOBS

@ personal@pfjacobs.com +31617974012 Amsterdam, the Netherlands https://github.com/Pieter-Jacobs

EDUCATION

M.Sc Artificial Intelligence
University of Groningen — September 2021 – July 2024

- Graduated cum laude with an average of 8.6. Published my master's thesis on improving large language models for domain-specific programming languages.

B.Sc. in Artificial Intelligence, Minor in Entrepreneurship
University of Groningen — September 2018 – September 2021

- Graduated with an average of 7.7 (GPA 3.7). Published my bachelor's thesis on active learning to reduce the labelling effort in text classification tasks.

EXPERIENCE

Co-Founder
STARTUP.CAREER startup.career — September 2026 – Present

- Building a community for the European startup ecosystem that inspires and helps young people to build their careers at the most ambitious startups, through professional film, editorial articles, events and a platform with a growing base of sign-ups.

Founder
Jacobian Systems — August 2026 – Present

- I combine an extensive technical background in AI with product experience to build and develop highly technical, AI-driven products for start- and scale-ups, from scratch to production, and to assess existing systems and what can be improved.

Product Manager
OneThird onethird.io — November 2025 – August 2026

- Owned our computer vision product, reporting to the founder: roadmap, go-to-market and business model, steering the developers building it.
- Scaled it to ∼20 large accounts at top-5 distributors in six European countries, turning customer needs into product decisions.
- Built a repeatable playbook to onboard customers, keep their models current, and help them cut manual testing and waste.

Data Scientist & ML Engineer
OneThird onethird.io — October 2024 – August 2026

- OneThird predicts the shelf life and quality of fresh produce non-destructively. For strawberries, our largest category, I led the technical roadmap and built the data science and machine learning behind it.
- Automated shelf-life and Brix prediction from NIR spectra, metadata and images: from manually run algorithms to continuously retrained deep learning pipelines (custom 1D CNNs, transformers) that perform well for every customer.
- Made noisy, subjective shelf-life labels more objective across customers, while keeping them aligned with each customer's own judgement.
- Built the computer vision system from an early prototype to fine-grained models trained on 1M+ images, assessing size, colour and defects (white shoulders, wet spots, mold) to each customer's spec; a quality check now takes ∼5 seconds instead of minutes.
- Replaced Power BI with our own analytics stack for customer dashboards (Postgres, Cube.js, React).
- Since September 2026 I continue working with OneThird on projects through Jacobian Systems.

Fullstack Website Development (Founder & Director)
Omun B.V — August 2020 – July 2024

- We design, build and deploy custom websites for clients, mainly through use of the MERN stack. One project example involved developing a platform where a major Malaysian fish seller could record all its purchases and sales.

Strategy Consultant
Young Advisory Group youngadvisorygroup.nl — May 2022 – February 2024

- Coached by top consulting firms, like Berenschot, McKinsey, Roland Berger and BCG, I provided strategic advice to small and medium enterprises, multinationals, and government institutions. Example projects I worked on included a Life Cycle Analysis of paper and digital books as well as advising about the use of AI in the Dutch Educational system.

Engineer & Researcher

UMCG (University Hospital) umcg.nl March 2022 – March 2023

- Worked on a computer vision project concerning the detection of Aspergillus in the lungs. We used machine learning to discriminate proven fungal infections from control.

Software developer, Intern

Dialogic dialogic.nl February 2021 – July 2021

- Created an application to reduce labeling effort of text classification tasks through use of BERT language model with active learning. The application had to be usable and understandable for employees with no knowledge of machine learning.

PUBLICATIONS

- Jacobs P.F., Pollice, P. (2024) Developing Large Language Models for Quantum Chemistry Simulation Input Generation. Preprint: `https://doi.org/10.26434/chemrxiv-2024-9g2w2`.
- Jacobs P.F., Wenniger G. M. D., Wiering M., Schomaker L. (2022) Active Learning for Reducing Labeling Effort in Text Classification Tasks. In: Leiva L.A., Pruski C., Markovich R., Najjar A., Schommer C. (eds) *Artificial Intelligence and Machine Learning. BNAIC/Benelearn 2021*. Communications in Computer and Information Science, vol 1530. Springer, Cham. `https://doi.org/10.1007/978-3-030-93842-0_1`.

NOTABLE PROJECTS & ACTIVITIES

Volunteer

HardList hardli.st September 2025 – February 2026

- Helped connect and showcase the European hard tech ecosystem through supporting the organization of events that bring together founders, investors and engineers as well as researching startups for inclusion on the website.

Kickboxing Match

- Trained six times a week for three months under a former world champion, and fought a match in the ring.

Various Side Projects

- **Rewind** (rewind.camera): shared event photo albums where pictures only develop after a deliberate delay.
- **Grappiq**: a social platform connecting comedians, venues and comedy fans.
- **Decentralized newspaper**: contributors form the editorial team and share in its revenue, built on the blockchain.

RELEVANT SKILLS

- Extensive experience with ML frameworks such as PyTorch, scikit-learn and Hugging Face, including designing custom architectures like CNNs and transformers.
- Computer vision for real-world inspection, from custom models and labelling tools to systems running in production.
- Building LLM applications with agents and tool use (MCP), RAG and fine-tuning (LoRA/PEFT), using frameworks and APIs such as LangChain, OpenAI and Anthropic.
- Taking models to production and keeping them up to date with MLOps tooling such as Azure ML, MLflow and Docker, and CI/CD through GitHub Actions and Azure DevOps.
- Data engineering and analytics with Databricks, dbt, Postgres and Cube.js.
- Full-stack development with React and Next.js on the frontend, and Node.js/Express, FastAPI, MongoDB and Supabase on the back-end.
- Proficient in Python, TypeScript/JavaScript and SQL; familiar with C and C++.
- Dutch and English (C2).