

Ignacy Wielogórski

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EDUCATION

Eindhoven University of Technology (TU/e) & Tilburg University Eindhoven & Tilburg, Netherlands
BSc Data Science Sep 2025 — Present

- Cumulative GPA: 8.0/10
- Relevant Coursework: Discrete Structures, Automata & Formal Languages, Logic and Set Theory, Data Acquisition Methods, Foundations of Data Analytics
- Expanding technical scope through a specialized elective track in Biomedical Engineering, applying data-driven methodologies to complex biological systems.

WORK EXPERIENCE

Chief Technology Officer & Co-Founder Jan 2026 — Present
ASAI Labs Inc. Warsaw, Poland / London, UK

- Co-founded and lead the technical architecture for a B2B SaaS startup specializing in Visual Inventory Intelligence and Counter Recognition Systems (CRS), backed by a recent pre-seed round and Project Europe.
- Architecting and deploying edge-computing computer vision pipelines tracking container volume and fill-ratios, eliminating the need for manual item counting in high-volume retail environments.
- Overseeing the nationwide rollout across 200+ enterprise bakery locations in Poland, driving a €120K+ upfront implementation and establishing a robust ARR moat.
- Managing hardware procurement, edge-device deployment, and the operational integration of OCR pipelines to ensure real-time data syncs with enterprise ERPs.

Computer Science Intern - Development & Engineering Feb 2026 — May 2026
ASML Holding N.V. Veldhoven, Netherlands

- Engineered automated Optical Character Recognition (OCR) and computer vision pipelines to extract and structure critical component metadata.
- Developed scalable data cleaning and maintenance workflows for global databases, ensuring high-precision ingestion for infrastructure optimization.
- Architected type-safe solutions to bridge the gap between complex engineering documentation and production-ready data infrastructure.

Lead Software Engineer (Contract) Jan 2025 — Dec 2025
Independent Consultant (B2B) Warsaw, Poland

- **LSP Group (Logistics):** Architected a cloud-native fleet inspection platform using **Next.js 15** and **React 19** within a high-performance **Turborepo**, enforced strict **three-layer architecture** to decouple business logic.
- Implemented a type-safe persistence layer with **Prisma 6** and **Neon serverless Postgres**, designing a **repository pattern** to safeguard database operations and eliminate schema drift.
- Engineered a responsive UI for dynamic multilingual forms using **virtualization** and **TanStack Query**, optimized for lightweight **K3s deployment** on resource-constrained devices.
- **Zero Waste Consulting (ESG):** Delivered a **0-to-1 enterprise ESG platform** automating **Scope 1, 2, and 3 reporting** in strict compliance with the **GHG Protocol**.

Software Engineer Oct 2024 — May 2025
RevisionDojo (YC F24) San Francisco Bay Area, USA

- Selected as the **sole engineer** from a cohort of 97 candidates (<1% acceptance) prior to **Y Combinator** acceptance, building the core infrastructure that supported the startup's entry into YC and subsequent **\$3.4M raise**.
- Architected a mission-critical **AI-driven data pipeline** that processed **80,000+ unstructured documents**, moving beyond generic wrappers to deploy **fine-tuned computer vision models** for high-precision content extraction.
- Engineered a scalable ingestion system that converted raw exam papers into structured datasets, creating the **proprietary data moat** that powers the platform's Generative AI engine.

PROJECTS

CTO @ ASAI Labs, Visual Inventory Intelligence x Gorąco Polecam (expo.asailabs.com) Jan 2026 — Present

- Deployed a proprietary computer vision system for Poland's leading bakery chain across a multi-year enterprise contract spanning 200+ locations.
- Trained bespoke object detection models to automate inventory auditing by mapping container volume and fill-ratios directly from edge devices.

Founder & Lead Developer, MyCard: Digital Identity Platform (getmycard.eu) Jun 2020 — Present

- Architected a self-sovereign identity platform integrating **NFC hardware** and **OSINT data aggregation**, scaling to **2,500+ users**.
- Achieved **100% infrastructure sovereignty** by building a fully self-hosted environment with custom Row-Level Security (RLS) to meet enterprise compliance standards.
- Facilitated an exit valuing the platform at 800K PLN, transferring technology to corporate environments.

Founder, DronePass (dronepass.vercel.app) May 2018 — May 2020

- Bootstrapped a niche SaaS for digitizing **EASA drone licenses** into cryptographically signed **Apple Wallet passes**, gaining **500+ paying users**.

EXTRACURRICULAR ACTIVITIES

Biomodelling Team Member — iGEM TU/e Jan 2026 - Present

- Engineering **mathematical models** and simulations to predict the behavior of synthetic biological systems, utilizing differential equations to analyze genetic circuit stability.

Head of Technology — Global Polish Student Society (GPSS) Dec 2025 - Present

- Leading a technical team of 5 developers while overseeing **active recruitment** to scale the development of a talent-matching ecosystem for the Polish student diaspora.

CERTIFICATIONS

EASA Drone License A1/A3, A2 (Up to 25kg), Civil Aviation Authority Warsaw Jun 2022

SKILLS

- **Languages:** JavaScript, Typescript, Rust, Go, Python, SQL (Postgres), Java, Swift, HTML/CSS
- **Technologies:** React, Node.js, Express.js, Next.js, TailwindCSS, Flask, SwiftUI, AWS, Cloudflare Workers, Docker, Kubernetes, Helm
- **Data Science:** Pandas, NumPy, SciPy, Scikit-learn, PyTorch, OpenCV, Matplotlib, Seaborn, Jupyter, Streamlit
- **Data Engineering:** Pinecone (Vector DB), LangChain