

BARTŁOMIEJ TEDYS

Software Developer | Data, Machine Learning & Geospatial Systems
Barttedys@gmail.com | +353 899 667 913 | Co. Cork, Ireland (relocating to the Netherlands) | [LinkedIn](#) | [barttedys.nl](#)

PROFILE

First-Class Honours graduate in Software Development (MTU, 2025) with experience across full-stack web development, applied machine learning, and geospatial data analysis. Built and deployed a computer vision pipeline for automated tree detection from aerial imagery as a final year thesis, and currently combine freelance web development with AI data annotation work. Relocating to the Netherlands and open to roles in software development, data engineering, or applied ML.

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Java, C++, C, SQL
Web Development: React, Next.js, Node.js, HTML/CSS, REST APIs, Supabase, Tailwind CSS
Data & Machine Learning: Pandas, scikit-learn, PyTorch, TensorFlow, NLTK, Instance Segmentation
Geospatial: QGIS, GDAL, Rasterio, spatial data analysis, aerial and satellite imagery processing
Tools & Other: Git, Docker, Linux, Agile/Scrum, Azure (in progress)

EXPERIENCE

- Senior Data Specialist | *Outlier AI*

Jul 2024 – Present

 - Promoted to Senior Reviewer across multiple AI training projects, ensuring data quality for large-scale model development
 - Annotate and evaluate training data spanning UI/UX, multilingual content, and software development topics, supporting multimodal model development across text, image and speech
 - Lead quality assurance on multilingual datasets, maintaining annotation standards across international projects
- Web Developer (Freelance) | *M&L Home Builds*

Jan 2025 – Present

 - Designed and built a website with a custom backend API for the image gallery, plus SEO optimisation; increased client leads by 300%
 - Built a separate full-stack contract and quotation tool with Next.js, Supabase and Resend for automated contract signing
- Software Development Intern | *Caeli, Amsterdam*

Feb 2024 – Jul 2024

 - Trained an instance segmentation model on a self-built dataset to detect individual tree canopies from aerial imagery
 - Analysed satellite imagery for environmental monitoring, working independently in a fast-paced startup environment
 - Used QGIS for spatial data analysis
- Mobile App Developer (Scrum Master) | *Binqy, Amsterdam*

Sep 2023 – Dec 2023

 - Built a cross-platform mobile app in React Native for a real client as part of a university exchange project
 - Acted as Scrum Master, running daily standups and sprint retrospectives for an international team

KEY PROJECT: AUTOMATED TREE DETECTION (FINAL YEAR THESIS)

- Winner, “Most Positive Environmental Impact” – MTU Innovation Competition
- Expanded the dataset from the Caeli internship five-fold and trained three instance segmentation models, achieving 78% detection accuracy with the best performer through a comprehensive evaluation process
- Processed 500+ km² of aerial imagery and deployed the pipeline at scale using QGIS, correlating tree coverage with air quality data across Dutch neighbourhoods
- Demonstrated the technical feasibility of replacing the bulk of manual tree surveying with automated detection, projecting up to a 95% reduction in survey time as the models are further refined
- Worked across Windows, Ubuntu and cloud notebooks to accommodate the different requirements of each model

EDUCATION

- BSc (Hons) Software Development, First-Class Honours | Munster Technological University, Ireland

2021 – 2025

 - Exchange semesters at HVA Amsterdam: Mobile Application Development, Big Data Processing
 - Relevant modules: Machine Learning, Database Design, Distributed Systems Programming, Security for Software Systems

LANGUAGES

English and Polish (native/bilingual)