

Tim Jonatan But

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EDUCATION

MSc Machine Learning

September 2025 – September 2026

University College London

London, UK

- Enrolled in PhD-level courses provided by the Gatsby Computational Neuroscience Unit: *Probabilistic and Unsupervised Learning* and *Approximate Inference and Learning in Probabilistic Models*.
- MSc Thesis Topic: Subliminal Learning as a Poisoning Vector during model Distillation

BSc Artificial Intelligence (Honours)

September 2022 – August 2025

Vrije Universiteit Amsterdam

Amsterdam, NL

- Thesis: *“Evaluating & Fine-Tuning LLMs for Natural Language Querying of Code Graphs”*
- GPA: 8.6/10

EXPERIENCE

Research Intern

April 2025 – August 2025

TNO-ESI

Eindhoven, NL

- Designed and developed a benchmarking framework with a curated 790-element dataset to evaluate Open Source vs. Proprietary LLMs for code graph querying.
- Investigated the efficacy of RAG and Parameter-Efficient Fine-Tuning (PEFT) in low-data regimes, demonstrating viability for natural language interfaces in high-complexity tooling.

Research Software Engineer

June 2024 – October 2024

Vrije Universiteit Amsterdam

Amsterdam, NL

- Collaborated with climate and salinity domain experts (SALAD/Trustfarm) to translate research insights into an interactive VR simulation, published and hosted on the [VU Research Portal](#).
- Implemented computational models for water usage and crop salinity responses within the game engine, ensuring the simulation accurately reflected established scientific outcomes.
- Showcased at the 2024 FOSC summit (Marrakesh), enabling policymakers to explore climate scenarios.

Research Assistant

June 2024 – April 2025

Vrije Universiteit Amsterdam

Amsterdam, NL

- Developed and deployed an LLM-integrated support agent (via Discord) to facilitate a longitudinal study on student-AI interaction patterns in academic contexts.
- Built an analytics dashboard to categorize student intent, enabling the analysis of collected data.

Teaching Assistant

September 2023 – July 2024

Vrije Universiteit Amsterdam

Amsterdam, NL

- Developed an automation tool for examination result communication, reducing administrative workload by more than 20 staff-hours per month.

PROJECTS AND AWARDS

Winner, SALAD and Trustfarm Hackathon

June 2024

Vrije Universiteit Amsterdam

Amsterdam, NL

- Secured funding for the 'VaRm Simulator' VR prototype, leading to its eventual publication.

Winner, VU Intro to AI Hackathon

September 2022

Vrije Universiteit Amsterdam

Amsterdam, NL

- Developed a computer vision agent for plastic waste identification using OpenCV.

Finnish Navy Reservist

January 2022 – September 2022

Finnish Defence Forces

Dragsvik, Finland

- Coastal Jaeger Green Beret recipient.
- Worked in military simulation software development and maintenance of virtual training environments.

TECHNICAL SKILLS

Programming Languages: Python, JavaScript, C#, SQL (MySQL), Cypher

Machine Learning: PyTorch, TensorFlow, JAX, MLflow, Pandas, NumPy

Developer Tools: Git, Linux, LaTeX, Google Cloud Platform, Blender, Unity, Godot

Languages: English (fluent), Swedish (fluent), Russian (fluent), Ukrainian (conversational)