

Παντελής Ρέμβος

Applied Informatics Student · Software & ML Engineer

remvosp@gmail.com
+30 694 492 7859
Thessaloniki, Greece
github.com/KawasakiCode
[LinkedIn Profile](#)

PROFILE

Motivated Applied Informatics student at the University of Macedonia, specializing in Information Systems, with hands-on experience in full-stack mobile development, cloud-deployed backend services, and machine learning engineering. Proven ability to architect and deliver end-to-end software projects independently — from database design to REST API development and cross-platform mobile frontends. Actively contributes to the IEEE UoM Student Branch in a leadership role. Strong analytical mindset with a commitment to building systems from first principles.

EDUCATION

Sep 2023 – Jul 2027

BSc Applied Informatics — Information Systems

University of Macedonia, Thessaloniki

Relevant coursework: Algorithms & Data Structures, Database Systems, Software Engineering, Information Security, Operating Systems, Computer Networks

EXPERIENCE & VOLUNTEERING

Jan 2026 – Present

Treasurer & Webmaster

[IEEE University of Macedonia Student Branch](#)

- ▶ Manage branch finances, budget planning, and financial reporting to IEEE headquarters.
- ▶ Own and maintain the branch website — handling content updates, design consistency, and hosting.
- ▶ Support event organization and collaboration with industry partners and academic staff.

PROJECTS

2024 – Present

FoitiFinder — Social Discovery Android App

Flutter · Dart FastAPI · Python ·
Firebase PostgreSQL

Full-stack mobile application featuring an AI-powered attractiveness scoring engine, real-time chat, and a physics-based card swipe UI — built entirely from scratch and deployed on the cloud.

- ▶ Built a Flutter/Dart frontend with physics-based swipe animations (drag, rotation, velocity detection), infinite scroll via a sliding-window architecture, and 3-directional Like/Pass/Super-Like mechanics.
- ▶ Developed a Python FastAPI backend with PostgreSQL, REST endpoints, and WebSocket-based real-time messaging; containerized and deployed to the cloud.

- ▶ Engineered an AI scoring pipeline using transfer learning: MTCNN for face detection and alignment → FaceNet (InceptionResnetV1) for 128-d embeddings → custom Linear Regression head. Achieved MAE of 0.61 on the SCUT-FBP5500 test set.
- ▶ Integrated Firebase Authentication (Email/Password + Phone OTP), Material 3 theming, and full i18n support (English & Greek) via .arb localization files.
- ▶ 167+ commits across a mono-repo structure (android/, backend/, lib/, research/) demonstrating iterative, production-minded development.

2024

Python · NumPy PyTorch
TensorFlow

Neural Network — Built from Scratch (3 Implementations)

Deep dive into neural network internals by reimplementing the same architecture three ways — with no shortcuts.

- ▶ Implemented forward pass, backpropagation, and gradient descent in pure NumPy to understand the mathematical foundations without framework abstractions.
- ▶ Re-implemented the same network in PyTorch using autograd and manual training loops, then in TensorFlow/Keras — comparing API design, performance, and debugging ergonomics across frameworks.
- ▶ Reinforced understanding of loss functions, activation functions, weight initialization, and vanishing gradient behavior through direct implementation.

2024

Python · NumPy

Simplex Algorithm Implementation

- ▶ Clean NumPy implementation of the Simplex optimization algorithm — written for clarity and educational value, demonstrating low-level mathematical programming skills.

TECHNICAL SKILLS

Languages

Python, Dart, Java, C,
JavaScript, SQL

Frameworks & Libraries

Flutter, FastAPI, PyTorch, TensorFlow,
NumPy, Firebase, Provider

Databases & Cloud

PostgreSQL, Firebase,
Cloud Deployment (REST
APIs)

Tools

Git, Android Studio,
VS Code, PyCharm

CORE COMPETENCIES

- ▶ Analytical & Critical Thinking
- ▶ Problem Solving & Debugging
- ▶ Information Security Awareness
- ▶ Database Design & Optimization
- ▶ Team Collaboration
- ▶ Adaptability & Self-directed Learning

LANGUAGES

Greek

Native (C2)

English

Proficient (C2)

ADDITIONAL INFORMATION

- ▶ Driver's License: Category B
- ▶ Date of Birth: October 13, 2005
- ▶ Personal Website: kawasaki.is-a.dev