

CONSTANTINOS TZOKAS

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EDUCATION

University of Thessaly, Larissa, GR

Oct 2021 — Oct 2025

B.S. Digital Systems

AWARDS & HONORS

3rd RoboRave International Final - Firefighting

Aug 2025

RoboRave

1st Business & Innovation Hackathon

Jun 2025

University of Thessaly

1st RoboRave Greece - Mouse Labyrinth

Apr 2025

RoboRave Greece

CERTIFICATIONS

PWC Software Academy

Dec 2025

PWC

Machine Learning & Artificial Intelligence

Nov 2025

Code Hub

Credential ID: 25C017890

Pedagogical and Teaching Efficiency

Oct 2025

University of Thessaly

Business Intelligence

Jan 2024

Code Hub

Credential ID: 24C015229

PROJECTS

Aspis | Python, SQL, PostgreSQL, Docker, Machine Learning

Nov 2025 — Present

- Built ML forecasting system using Facebook Prophet to predict 7-day sentiment trends with confidence intervals, achieving actionable risk insights from 300+ global news sources
- Implemented NLP pipeline with spaCy for geopolitical entity extraction and VADER sentiment analysis, processing 1,000-3,000 articles daily with 98%+ location accuracy
- Developed AI validation system using Ollama (llama3.2:3b) for context-aware country detection with deterministic outputs

Stackd | NextJs, Clerk, Supabase, Dexie Js, Tailwind CSS, PWA, RESTful API

Sep 2025 — Present

- Built offline-first task manager with IndexedDB sync queue handling 100% offline CRUD operations
- Implemented 4-tier role system (RLS policies) + analytics dashboard with 6 productivity metrics
- Deployed as installable PWA with service worker caching and automatic background sync

Wildfire Management Multi-Agent System | Java, JADE, Swing

Oct 2024 — Sep 2025

- Developed an intelligent multi-agent system for wildfire detection, monitoring, and management
- Implemented autonomous agents using Java for real-time wildfire response coordination
- Designed agent communication protocols and decision-making algorithms

LEADERSHIP EXPERIENCE

Judge

Jun 2025 —

FIRST® LEGO® League Explore

- Selected as a Technical Judge to evaluate robotics projects and software design.