DUNĂRINȚU MIHNEA-RAFAEL

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PROFESSIONAL EXPERIENCE

London based Hedge Fund – Backend and Data Engineer **July 2026 – Present**

- **Architected** end-to-end data pipelines (Python, Prefect) to ingest, parse, and rigorously sanitize billions of raw financial records via custom scraping engines and CV models, staging normalized datasets in cloud data lakes.
- **Designed** scalable data warehouse schemas and orchestrated the rapid aggregation of large-scale financial datasets, ensuring that heavily filtered market intelligence was served to client-facing frontends with maximum computational efficiency.
- **Tech Stack:** Kedro, Snowflake, Prefect, FastAPI, Pandas, Numpy, Pydantic, Python, SQL, Azure Blob Storage

VERASYS International – Software Engineering Intern **October 2025 – December 2025**

- **Engineered** and launched the company's e-commerce platform from the ground up, collaborating closely with a **full-stack** engineering team.
- **Tech Stack:** React, TypeScript, Node.js, Express, PostgreSQL, pgvector, Pinecone, Docker, GitLab

PROJECTS

BidUp – in progress **February 2026 - Present**

- **Architected** the backend infrastructure and core business logic for a live apparel auction platform (web and mobile).
- **Designed** scalable APIs, secure user authentication via OTP, machine learning integrations, and a robust payment/escrow architecture.
- **Tech Stack:** Python, Django REST Framework (DRF), PostgreSQL, Redis, Stripe API, Escrow API, Docker

SeaNtinel (CASSINI 11th Edition Hackathon)

- **Engineered** a web application MVP designed to detect illegal maritime activity and "dark vessels" in restricted areas.
- **Integrated** a YOLO computer vision model with AIS feeds and Copernicus satellite imagery to identify and track untracked ships.
- **Tech Stack:** Python, Django, FastAPI, Flask, LocalTunnel, Roboflow (YOLO), Google Colab

EDUCATION

NATIONAL SCIENCE AND TECHNOLOGY UNIVERSITY „POLITEHNICA" OF BUCHAREST
Bachelor in Computer Science at the Faculty of Engineering in Foreign Languages **Graduation: June 2028**

- **Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Operating Systems, Web Development

CERTIFICATIONS AND AWARDS

2nd Place Junior Achievement Romania Innovation Camp **December 2025**

- Developed the Express backend architecture for a mobile MVP featuring real-time voice-to-text transcription for seamless note-taking.

National Olympiad of Informatics (C/C++)

- Third place in the county phase, obtaining 79/300 points by competitive solving data structures and algorithm problems. **2024**
- Second place in the county phase, obtaining 137/300 points by solving competitive data structures and algorithm problems. **2023**

SKILLS

- **Technical Stack:** Python (Django, DRF, FastAPI, Flask, Pydantic, Pandas, Numpy), JavaScript (React, Node.js, TypeScript), C/C++, Java, SQL, Bash, Docker, PostgreSQL, Redis, Git, Linux, Figma
- **Specialized Integrations:** Kedro, Snowflake, Prefect, Azure Blob Storage, Stripe & Escrow Payments, YOLO Computer Vision, OTP Auth, Pinecone, pgvector, Copernicus Satellite & AIS Data
- **Spoken Languages:** Romanian (Native), English (C1 – **CAE**), German (B2)