

# Dan Stativa

## Curriculum Vitae

*"In God we trust; all others bring data."  
- W. Edwards Deming*

### Education

- 2024 - Present **Master of Computer Science - Data Science**, *The Faculty of Mathematics and Computer Science*, University of Bucharest
- 2013 - 2016 **Bachelor of Computer Science**, *The Faculty of Mathematics and Computer Science*, University of Bucharest
- 2005–2009 **Bachelor of Philosophy**, *The Faculty of Philosophy*, University of Bucharest, Specialization Moral and Political Philosophy

### Computer Science Bachelor Thesis

- Title *Predicting Conversions in Keyword Based Online Advertising Systems*
- Supervisors Lect. Dr. Patrascu Andrei
- Description Developed a predictive analytics application using **R** and **RStudio** to forecast keyword performance in PPC advertising systems. Built data pipelines and a web crawler in **Python** for data collection, with statistical modeling and visualization components to predict conversions and ROI based on historical campaign data.

### Masters Dissertation Proposal

- Title *Social Media Messages Survival Models: A Proportional Hazards Framework for Quantifying Message Longevity and Virality on Telegram*
- Supervisors TBD
- Description Built a survival analysis framework in **Python** to model message longevity on Telegram using Cox Proportional Hazards. Worked with a private terabyte-scale dataset shared by an industry partner. Processed data using streaming CPython parsers with **NumPy/Pandas** vectorized operations and native extensions for performance. Visualizations and statistical modeling identify content, author, and temporal features predicting information survivability.

### Computer skills

- AI/ML Python, PyTorch, PySpark, Scala (SparkML), Google Cloud Dataproc
- Backend PHP (Laravel, Symfony), Golang, MySQL/PostgreSQL/Mongo, Linux, Docker
- Infrastructure Docker, RabbitMQ/SQS, Kafka, Redis, Datadog, Git
- Frontend JavaScript ES6, React, Redux, HTML5

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## Experience

### Vocational

- July 2024 – **AI Engineer**, CEDARA, Bucharest  
Present  
Developing for a carbon intelligence platform focused on the advertising vertical to assist companies in achieving NetZero targets. My role bridges high-scale backend development with AI/ML infrastructure:
- **AI/ML Implementation:** Transitioned an advertising campaign optimization solution from a **Python/PySpark** PoC to a production-grade **Google Dataproc** environment using **Scala on SparkML**.
  - **Data Processing:** Architected and optimized **Laravel-based batch processes** for large-scale data ingestion and processing.
  - **Frontend Development:** Built and maintained reactive client-facing interfaces using **Livewire**.
  - **Strategic Impact:** Developed logic using carbon footprint data as a proxy for media value, contributing to the platform's core optimization engine.
- Sep 2021 – **Senior Web Developer**, PENTALOG, Bucharest  
July 2024  
Senior consultant for Bitpanda, a leading European investment platform. Developed and maintained features within a **Service-Oriented Architecture (SOA)**:
- **Quality Culture:** Upheld rigorous **Test-Driven Development (TDD)** with **99% unit test coverage**, achieving bi-weekly deployments for six months with **0% error rate**.
  - **Monitoring:** Implemented **Datadog** for application monitoring to ensure platform stability.
  - **Tech Stack:** PHP (Laravel), MySQL, Docker, Redis, Kafka.
- June 2020 – **Senior Web Developer**, ISOSKILLS, Bucharest  
September 2021  
Backend developer for Ezugi, a live casino gaming provider:
- **Microservices:** Re-architected a reporting service to offload read operations from master database to a read-only replica.
  - **Performance:** Reduced database load and latency on the primary system.
  - **Tech Stack:** PHP (Symfony, API Platform with GraphQL), MySQL, Docker.
- June 2019 – **Fullstack Web Developer**, ENSYSCO, Bucharest  
June 2020  
Developed an administration platform for gas and energy providers, handling complex pricing structures and tariff calculations:
- **Frontend:** Built UI with **React/Redux** and SemanticUI.
  - **Backend:** Developed features with **PHP (Symfony, API Platform)** and **MySQL/MariaDB**.
  - **Tech Stack:** Docker, React, Redux, PHP (Symfony), MySQL.
- Oct 2018 – **Senior Web Developer**, BANDAI NAMCO ENTERTAINMENT ROMANIA, Bucharest  
March 2019  
Built RESTful API from scratch for mobile game *Retro Wonder Park*, enabling backend services for gameplay features with comprehensive functional testing.
- Apr 2017 – **Senior Web Developer**, EMAG, Bucharest  
Jun 2018  
Search Team member for Romania's largest e-commerce platform. Maintained **Apache Solr** search capabilities while contributing to the team's effort to rewrite the Search API as an independent microservice, decoupling from the website monolith and integrating async with documenting, targeting, and antispam services.
- Won **Innovation Award (AI/ML)** at Future Hacks 2.0: built PoC predicting user funnel stage and conversions from web access logs using **R** (logistic regression) and **Python** (Random Forests).
  - Architected parallel regression testing with Docker/SeleniumGrid, reducing test suite execution by **90%**.

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- Mar 2016 – **Senior Web Developer**, PATHWWWAY, Bucharest
- Apr 2017 Promoted from Critical Fixes to core development team for a gaming platform:
  - Built player-tracking system with BI department for targeted marketing.
  - Trained Testing Team on automated testing (Java, Selenium, Git).
- May 2014 – **Web Developer**, XLTEAM, Bucharest
- Sep 2015 Tech outsourcing. Key projects:
  - **Rolii.ro**: Legal portal indexing 5M+ court decisions with sub-second Elasticsearch queries.
  - **Multibonus.ro**: MOL's loyalty program; integrated frontend with banking backend for fuel pump transactions.
- Nov 2013 – **Junior Web Developer**, *Various Companies*, Bucharest
- Sep 2015 Early career roles at WebVenture, Customsoft (evomag.ro), and The Shop Page. Developed PHP applications, learned Agile practices, production debugging, and code review culture.

## — Languages

|          |                |                                |
|----------|----------------|--------------------------------|
| Romanian | Native speaker |                                |
| English  | Advanced       | <i>Conversationally fluent</i> |

## — Interests

- Math / Logics
- Literature
- Tennis
- GameTheory
- Film