

**Highlights:** Fulbright scholar; 3+ years industry experience; research experience; background in AI, ML and Software Eng.

## EDUCATION

<b>MSc Machine Learning &amp; Robotics</b>	(3.95/4)	University of Southern California, USA	2018 - May 2020
<b>MSc Artificial Intelligence</b>	(9.90/10)	Univ. Bucharest & Leiden Univ., Netherlands	2016 - 2018
<b>BSc Computer Science &amp; Math</b>	(9.93/10)	University of Bucharest, Romania	2013 - 2016

## EXPERIENCE

**Machine Learning Research Intern** Blizzard, Irvine CA summer 2019

- Implemented comparison pipeline for Transformer vs Convolutional performance in model-based Reinforcement Learning
- Presented final results and applications, tailoring them to various audiences, from peers to non-technical stakeholders

**Machine Learning Researcher** Bitdefender, Romania (1.3 yrs) 2017 - 2018

- Designed and implemented detection and prevention model pipelines, deployed on all antivirus solutions in EU and US
- Formalized abstract issues into solvable tasks; employed clusterings, embeddings, time series, graphical models
- Cooperated closely with 4 colleagues; participated in architectural decisions; held technical and theoretical presentations

**Data Science Researcher** Adobe, Romania (1.2 yrs) 2016 - 2017

- Proposed, researched and presented a next-action predictor for Adobe XD, used in the on-boarding process
- Implemented (end-to-end) the product recommender engine for Adobe BC, currently part of the Premium plan
- Researched an ensemble of heterogeneous supervised model for selecting which product features drive retention

**Data Science Intern** Intel, Romania summer 2015

- Developed a spike-detection algorithm on CPU statistics, in an interactive web dashboard, for IoT damage prevention

**Workshop Facilitator** at USC — held series on Data Wrangling & Visualization for 30+ attendees (2 sem.) 2018 - 2020

**Teaching Assistant** at Univ. Bucharest — *Formal Methods* and *Functional Programming* courses (2 sem.) 2015 - 2016

**Mobile Game Developer** at a Romanian startup — implemented interface and mechanics in a small team 2014 - 2015

## SKILLS

Python, Tensorflow, Pytorch • SQL, Hadoop • Javascript, Front-end, Back-end • C#, Unity • Haskell • Java, C++ • Unix  
Reinforcement Learning, Natural Language Processing, Computer Vision • Recommender Systems, statistical methods  
fast prototyping • apply theoretical models to complex problems • scalable production-ready components  
present insights and technical concepts to peers and non-expert audience • cross-team collaboration

## PROJECTS

[2019] Intervening in multi-agent RL co-evolution  
[2019] Self-driving for camera-enabled model car  
[2018] Predicting swearing social media engagement  
[2018] Adaptive game difficulty using emotional cues  
[2017] Efficient parallel Neural Net implementation

## INVOLVEMENT

[2018-20] President of *USC European Students Organization*  
[2017] Presented and discussed at the Erasmus+ international project *Development of Intercultural Sensitivity*  
[2015] Selected as *Google Student Ambassador*; managed weekly *Student Club*; organized 40-student hackathon

## PUBLICATIONS

**[AAMAS'19 workshop]** Reinforcement Learning vs Genetic Algorithms in Game-Theoretic Cyber-Security  
**[US Patent, pending]** Anomaly detection of user behavior based on raw system action embeddings

## AWARDS

[2018-2020] Fulbright Scholarship  
[2017] Cornell, Maryland, Max-Planck Research Summer School  
[2014-2018] Undergraduate, Graduate Excellence Awards  
[2015, 2016] 1st place at Microsoft; Accenture Hackathons