

Ana Baltaretu

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EXPERIENCE

Software Development Engineer *Jun 2021 - Sept 2021*
Amazon Web Services (AWS) *Berlin, Germany*

Worked as an intern in the SageMaker Autopilot team at AWS, which deals with automating machine learning pipeline tasks to streamline model building, training, and deployment.

Performance benchmarking AWS-Lambda microservice

- Numerically evaluated cold and warm start latencies, leading to the adoption of AWS-Lambda for the service.
- Automated performance testing with Python and Docker, delivering detailed reports on impact.

SCRUM and Agile Practices

- Participated in SCRUM ceremonies, including sprint planning and retrospectives.
- Acted as Scrum Master, enhancing team communication and sprint outcomes.

Teaching Assistant *Aug 2020 - Jun 2025*
Delft University of Technology *Delft, Netherlands*

Worked closely with teaching staff to organize courses, assist students during lab sessions, and provide feedback on assignments.

Head TA for Computer Organisation (CO) & Computer Networks

- Managed 30-40 TAs across multiple courses, making decisions on assignment design and course improvements.
- Developed exam questions, participated in evaluations, and created self-study materials for CO on logic circuits, I/O, caching, and pipelining.

Head TA for Software Engineering Methods (SEM) & OOPP

- Created scripts to monitor student progress and improve consistency in the TA feedback.
- Handled student concerns related to task division, communication, and SCRUM practices.
- Transformed SEM into an assignment-focused course with materials on requirements engineering, teamwork, and sustainable software.

TA for Project Courses



- Supervised groups of 2-6 students for projects in software development, computer vision, and image processing.
- Guided students on scope management, feasibility, and client interactions, providing suggestions for project improvements and constructive feedback to address mistakes.

EDUCATION

Master of Computer Science **TU Delft**
Delft, Netherlands **2022-2025**

Bachelor of Computer Science & Engineering **TU Delft**
Delft, Netherlands **2019-2022**

PAPERS

EV-Mask-RCNN: Instance Segmentation in Event-based Videos   

- Applied deep learning techniques (Mask R-CNN) for instance segmentation on Dynamic Vision Sensor (DVS) data.
- Processed event-based inputs from the N-MNIST dataset into RGB-D images, and achieved promising results.

PROJECTS

Software Architect @ Thuisbeclone

- Food Delivery App

Full-stack Developer @ Fraudweiler

- Plagiarism detection system

Team Leader @ PrimeTech

- Robotics team

ACHIEVEMENTS

- Qualified and participated to NWERC 2020
- Bronze medal at the national stage of the Romanian Computer Science Olympiad 2017
- Think Award at the Regional Stage of the First Tech Challenge robotics competition 2019

LANGUAGES

- Romanian (Native)
- English (Native)