
Dr. Eldar Baykiev

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I have STAMP 4

Experience

Compass Informatics / Earth Observation Developer

JUNE 2023 - NOW, Dublin, Ireland

Worked on the development and implementation of object detection, pixel classification, time series analysis, remote sensing algorithms and data processes within Earth Observation and Agriculture-related projects, such as land cover and event classification ML techniques and end-to-end processing chains for the Department of Agriculture, Food and the Marine. Led the creation of a vegetation detection demonstrator app for the CAMEO Earth Observation platform. Gained an experience of working within an established medium-sized enterprise, direct interaction with clients and tight collaboration with other SMEs on large long-term projects.

GeoWox Ltd. / Data Scientist (GIS/geospatial and R&D)

DECEMBER 2020 - FEBRUARY 2023, Dublin, Ireland

Led GIS and geospatial related data science department of FinTech/property valuation startup. Responsible for building and maintaining ETL pipelines, design of databases and creation of advanced software (Python) solutions to ingest various structured and unstructured data. Supported a small team of engineers to productionize solutions and deploy them on AWS Cloud, as well as to run machine learning models on SageMaker. Worked on R&D projects and cost-and-return analysis. I was very flexible and achieved great results with simple tools and scarce resources, always met deadlines and had a proven track of providing scalable and cost-effective solutions.

Kiel University / Researcher

APRIL 2019 - NOVEMBER 2020, Kiel, Germany

Analyzed geospatial and geophysical datasets, performed scientific programming and computing tasks (Python, C/C++), delivered a scientific software package (used by European Space Agency) to teach doctoral students how to work with satellite magnetic data.

Dublin Institute for Advanced Studies / Researcher

APRIL 2017 - MARCH 2019, Dublin, Ireland

Performed scientific programming tasks, participated in international conferences, analyzed structured and unstructured data, including geospatial datasets. Delivered a software package LITMOD3D 3.0 (FORTRAN), used for numerical physical modeling by Equinor (former Statoil).

Ludwig Maximilian University of Munich (LMU) / Research Assistant

SEPTEMBER 2012 - DECEMBER 2012, Munich, Germany

Created Python software for large scale signal processing on supercomputers (SuperMUC).

Education

Norwegian Institute of Science and Technology (NTNU) / PhD

NOVEMBER 2013 - JANUARY 2017, Trondheim, Norway

Participated in the European Space Agency SWARM satellite project, analyzed satellite data, performed numerical modeling, studied inversion and optimization mathematical theory.

Ludwig Maximilian University of Munich (LMU) / Master

OCTOBER 2011 - OCTOBER 2013, Munich, Germany

Moscow Institute of Physics and Technology (MIPT) / Bachelor

SEPTEMBER 2007 - SEPTEMBER 2011, Moscow, Russian Federation

Skills

Python (libraries, scipy, TensorFlow, PyTorch), C/C++, Matlab, FORTRAN, PyCharm, Eclipse, Visual Studio, SQL (Postgres), AWS, SageMaker, S3, Docker, ArcGIS/QGIS, Azure DevOps (TFS), Oasis Montaj, git, Linux, Tableau, MS Excel, agile and behavior-driven development.

English (fluent), Russian (native), German (basic), Norwegian (basic).