Olha K.
Senior Python Engineer, Data Quality, ML

SUMMARY

- 13 years of experience in IT
- Proficiency in Python, Pandas.
- Data quality for ICC profiles and algorithms for display color calibration
- Mathematical modeling (MATLAB, Octave, Comsol, MathCad), software algorithms, numerical methods (algebra, interpolation, regression, nonlinear problems, optimization, ordinary and partial differential equations), machine learning.
- Upper-Intermediate English.
- Available in two weeks

TECHNICAL SKILLS

Main Technical Skills	Python
Programming Languages	C++, JavaScript, Python
UI Frameworks, Libraries, and Browsers	CSS, HTML
Python Libraries and Tools	Matplotlib, NumPy, Pandas, Plotly, pytest, Scikit-learn, Seaborn
AI & Machine Learning	NumPy, Scikit-learn
Data Analysis and Visualization Technologies	Apache Airflow, Jupyter Notebook, Pandas
Databases & Management Systems / ORM	MS Access, MySQL, PostgreSQL, SQL
Methodologies, Paradigms and Patterns	Agile, Kanban, Scrum
Third Party Tools / IDEs / SDK / Services	Comsol, Excel, MathCAD, MatLab, PyCharm
Version Control	Git
Collaboration, Task & Issue Tracking	Jira

QA, Test Automation, Security	pytest
Other Technical Skills	Octave

EXPERIENCE

Data Quality Automation Engineer, Amazon e-Commerce Aggregator

The Amazon aggregator, one of the leaders in buying up and scaling third-party merchants selling on Amazon and other marketplace platforms

February 2021 - Present time

Responsibilities:

- Analyse and test big volumes of data from different sources: API, Web -scrapers etc.
- Analyse business requirements and communicate with stakeholders to identify key points.
- Create test documentation (Test Plans, Test Reports etc.).
- Manual check for new features, bug fixes, changes.
- Expand and maintain Data Testing Framework with new automated Python scripts for testing data quality (completeness, accuracy, uniqueness etc.) and the outcomes of data transformation activities.
- Prepare Airflow DAGs for scheduled running of automation test tasks.
- Monitoring tests results.
- Refactor and support automation tests.
- Prepare Sisense dashboards for monitoring results of automated tests.

Technologies:
Python3, SQL, PostgreSQL, Allure Framework, Sisense, AWS (Amazon S3, Amazon Redshift), Snowflake, AirFlow, Git, GitHub, Jira, CircleCI

Maternity Leave

2019-2021

Algorithm Developer, Software Technologies Inc.

April 2011 - October 2018

Description: Medical imaging, photo, geospatial industries, Automotive.
Responsibilities:

- Data Validation for Product Management Department
- Development of algorithms for professional color calibration and profiling software (QUBYX PerfectLum, QUBYX PressProof and other OEM products):
  - improvement of algorithms for display calibration;
  - development of methodologies and algorithms for creation of CLUT-based ICC profiles for display, printer (CMYK, RGB, monochrome), camera, scanner;
  - algorithm development for other helper tools (verification of sensor measurements during printer profiling, calculation of devices gamut intersection etc.).

- Automotive - for in-car display environment for e.solutions (Audi) Color matching within a set of displays
- Development of methodology and models for calibration of colorimeter (QUBYX MicroEye Sensor Module).
- Implementation of all the developed algorithms in MATLAB.
- Testing of implemented algorithms, performance of experiments.
- Cooperation with the team to help embed new algorithms into the product.

Lecturer at National University

September 2006 - June 2013
Responsibilities:

- Conducting of lectures and practices for courses "Numerical Methods", "Numerical Methods of Mathematical Physics", "Mathematical and Statistical Methods of Social Processes Analysis".
- Preparation of the lecture materials, helper documents and tasks for practices (4 published manuals).
- Bachelors of scientific works supervision.

Senior Researcher at National University

January 2007 - December 2009
Responsibilities:

- Research and development of mathematical models, methods, and algorithms for computer modeling of 2D and 3D boundary value and initial boundary value problems for partial differential equations.
- Implementation of the application program package for computer modeling of dynamic problems in MATLAB.
- Performing numerical experiments and analysis of the obtained results.
- Writing of monthly and annual reports.

Mathematical Modeling and Numerical Methods, Postgraduate State Technological University
October 2007 - January 2011

Master of Computer Science National University
September 2000 - June 2006

COURSES, CERTIFICATES

Machine Learning, ml-class.org **-** online course on Coursera created by Stanford University
April 2012 - July 2012

Course included methods of supervised and unsupervised learning: regression, neural networks, support vector machines, clustering etc.