



Olena Kriukovska

Python Developer

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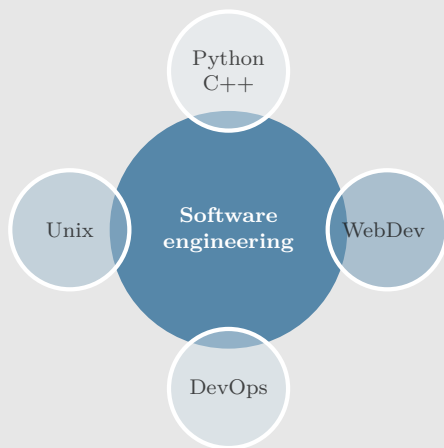
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olena-kriukovska

OKriukovska

permanent residence & work permit
 citizenship

Core competencies —



Python ecosystem

Javascript/TypeScript

C++ Modern C++ with STL

Education

MSc, Computer Engineering

Specialization: *System Programming*

Donetsk National Technical University

Jun 2018 | Pokrovsk (& Donetsk), Ukraine

Profile

- Excellent coding skills in Python and JS, as well as skills in Web and DevOps
- Solid expertise in 3D modeling and computer graphics design (in particular, Adobe Photoshop)
- Scientific research with the focus on micro-controller programming and numerics (discrete element method)
- Life long interest in Computer Science and Web

Skills

	Expert	Proficient	Prior Experience
Programming	Python • PHP	C++ • bash • SQL • TypeScript/JS	Java • C
Web	HTML5/CSS3 • Flask/Jinja2	Angular	Matlab • Fortran
ML libraries	scipy • Jupyter	pandas • sklearn • plotly • Dash	keras • bokeh • altair
Misc libraries		OpenMP • MPI	Spark
Tools & utilities	Git • Adobe Photoshop	Docker • Ansible	GitHub-Actions • Jenkins • k8

Work Experience

Development & Academic Research

- 2020 – Present **Freelance developer** Málaga, Spain
Freelancing: Development and Support of Web Apps and Services
- 2020 **Visiting Scholar** High-Performance Computing Center, Stuttgart, Germany
Fund: Transnational Program for a Pan-European Network of HPC (HPC-Europa3)
Infrastructure and Microservices for Complex Fluid Dynamics (CFD) Simulation of Dynamic Networked Objects (DNOs)
 - Developed microservices for CFD simulation of DNOs
 - Analyzed massive datasets generated through numerical simulations
 - Implemented data storage and analysis mechanisms using REST and NoSQL
 - Created visualization dashboard for on-line monitoring
- 2019 **Visiting Scholar** High-Performance Computing Center, Stuttgart, Germany
Fund: Transnational Program for a Pan-European Network of HPC (HPC-Europa3)
Research on Digital Twins (DTs) of Complex Dynamic Systems (CDSs)
 - Studied the methodologies for creating digital twins of CDSs
 - Implemented digital twin of a CDS with networked structure
 - Implemented subsystem for real-time monitoring and analysis of DTs
- 2018 **Visiting Researcher** Hamburg University of Technology, Hamburg, Germany
Student
Fund: Verfahrenstechnik Pro3 e.V. society
Development of an Experimental Virtual Lab for Studying Granular Flows in Dyssol toolkit
 - Implemented the discrete element method (DEM) for simulating granular flows on computer clusters
 - Coded simulation of apparatuses at clusters (included in commercial version of Dyssol – DEM simulation toolkit)
 - Done constructing, 3D modeling, and printing of solids process apparatuses
 - Programmed and maintained 3D printer
 - Prepared a manuscript on implementing DEM in parallel environments

Teaching

- 2017 – 2018 **TA** Donetsk National Technical University, Donetsk, Ukraine
- Deployed, maintained, optimized, and documented 3D printing infrastructure
 - Organized regular University OpenDays and Career Guidances
 - Supervised micro-controller programming labs

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About Me

Passionate in developing and administering Web services that shape human experience with WWW

Key Projects

Commercial (contributor)

 **Dyssol** C++

Pet Projects

 **Todoro** Python3 PHP

Soft skills

Languages



	English (fluent)	<div><div></div><div></div><div></div><div></div><div></div></div>
	Spanish (B2)	<div><div></div><div></div><div></div><div></div><div></div></div>
	German (B2)	<div><div></div><div></div><div></div><div></div><div></div></div>
	Russian (native)	<div><div></div><div></div><div></div><div></div><div></div></div>
	Ukrainian (native)	<div><div></div><div></div><div></div><div></div><div></div></div>
	Norwegian (A2)	<div><div></div><div></div><div></div><div></div><div></div></div>

Clifton Strengths Profile (Top 5)

- 1 **Focus**
- 2 **Responsibility**
- 3 **Learner**
- 4 **Analytical**
- 5 **Maximizer**

Education



Academic Degrees

Jul 2018	M.Sc. in Computer Engineering <i>Donetsk National Technical University</i> , Donetsk, Ukraine 	Magna Cum Laude, GPA: 4.9 (out of 5)
	Major: System Programming Thesis: <i>Research of 3D Printing Technology Usage in Microsystems Component Development</i> Advisor: Dr. Oleksandr Samoshchenko	
Jun 2016	BSc. in Computer Engineering <i>Donetsk National Technical University</i> , Donetsk, Ukraine 	Magna Cum Laude, GPA: 4.9 (out of 5)
	Graduation work: <i>Development of an Electronic Score-Board for Sport Competitions</i>	

Grants and Awards

2020, 2019	Scholarship for Young Scientist in HPC Domain	HPC-Europa3, Germany 
2018	Pro3-Scholarship	Verfahrenstechnik Pro3 e.V., Germany 

Selected Projects

 Dyssol	Tool for Dynamic Flowsheet Simulation of Production Processes for Granular Materials	C++
 Todoro	TODO Service	Python3 PHP