





Lead Software Engineer

OVERVIEW

PhD in Physics and Mathematics with a strong academic background, PostgreSQL contributor and software developer with more than 7 years of experience in total. There is a number of projects where I participated in different roles, from small startups to large web companies. Although it is not directly related to programming, I have a dozen of publications in physical journals. I am able to read/write research papers and present results of my work in text, graphics and as public talks (the most recent were PgCon'20 and FOSDEM'21).

EXPERIENCE

May 2021 – Present Lead Software Engineer Neon, Inc.

Serverless PostgreSQL DBaaS.
PostgreSQL / Rust / Go / K8s

Oct 2018 - May 2021 Software Developer Postgres Professional

PostgreSQL core development: recovery (pg_rewind), block-level incremental backup engine (ptrack), sharded fwd-based Postgres, logical replication, autonomous transactions.

C / PostgreSQL

Apr 2009 - Jun 2022 Research Fellow, Engineer Federal Scientific Research Centre «Crystallography and Photonics» RAS

Electromagnetic theory and numerical simulations using Comsol Multiphysics, SEMCAD X and Python. Optics, metamaterials, plasmonics, optical chirality. Atomic force microscopy

raw data post-processing.

Python / MATLAB / Comsol / SEMCAD X / LaTeX / 3D modeling / Blender

Sept 2015 – Jun 2018 CTO, Senior Software Developer Skuuper

Full-text search engine for translation memory (TM) and Rails API development. CI and deploy infrastructure. Gitlab Issues, Superset (ex Caravel) analytics and dashboards, Yandex

metrics, Google analytics.

Ruby / Rails / Python / JavaScript / NER, NLP / PostgreSQL

Jun 2017 - Sept 2017 Google Summer of Code PostgreSQL

PostgreSQL patches development: errors handling and parallel COPY execution.

C / PostgreSQL

Mar 2015 – Dec 2015 Software Developer, Tutor New Professions Lab

Automation of programming tasks assignment and verification at Data Science courses (MapReduce, Machine learning, Recommendation systems, Graphs). Personal consulting

for students.

Python / MongoDB / Hadoop / Spark

Nov 2013 - Jun 2014 Software Developer Yandex

Search engine results page frontend and middleware developer. BEM platform contributor.

JavaScript / CSS / SERP

Jun 2011 - Nov 2013 Software Developer S&A Web Development

Full stack web development at various projects: social game, dating service and travel tours

meta search engine.

Ruby / Rails / JavaScript / Backbone.js / PostgreSQL

EDUCATION

Oct 2012 - Jun 2018 Doctor of Philosophy (Ph.D.) Federal Scientific Research Centre «Crystallography and Photonics» RAS

Physics and Mathematics, Condensed Matter Physics

Sept 2006 - Sept 2012 Master's Degree National Research Nuclear University «MEPhl»

Applied Mathematics and Physics