

Dmitry Dolgov

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PROFESSIONAL PROFILE

Talented senior software engineer with strong technical and mathematical background. Have deep experience in the designing, developing, deploying and conducting performance analysis of large-scale systems. Contributor of many open source projects, including PostgreSQL, Linux kernel and GHC. An active member of the PostgreSQL community and Haskell enthusiast.

CAREER SUMMARY

- 2017–date Senior Software Engineer, "Zalando".
Responsible for databases infrastructure (PostgreSQL) and performance optimization in different environments (DC, AWS, Kubernetes), including development of tools and services for this purpose. Previously was taking part in development of internal CI/CD infrastructure, maintenance of applications in data centers, and development of new cloud native solutions on Kubernetes.
- 2014–2017 Senior Python developer, "Mindojo".
Involved in development of several important parts of adaptive online education platform, refactoring and improvement of legacy code, made big contribution into backend, frontend and devops solutions.
- 2013–2014 Lead python developer, "TopSoft".
I was creating from scratch the new modern social web-service "Temaretik", solving scalability and performance challenges in both backend and frontend sides, improving organization of development process, CI/CD etc.
- 2012–2013 Software engineer, LLC "DM Group(Direct)", Kemerovo.
My responsibility was developing multiple B2B modules for the Direct service with complex business logic and processes.
- 2010–2012 Software developer, LLC "Edison", Kemerovo.
I took part in successful development and launch of multiple web services and applications for Windows and mobile platforms (iOS, Android).

SKILLS AND COMPETENCIES

Backend	PostgreSQL, Linux, Docker, Kubernetes, MongoDB, AWS, Django
Programming languages	Python, C, Haskell, Clojure, Golang, Bash
Frontend	JavaScript, CoffeScript, AngularJS, Ember.js
Tools	Vim, Git, Perf, Latex, Gdb, Ansible
Mathematics	Solving systems of nonlinear equations by different numerical methods. CFD.

PROJECTS

- PostgreSQL Development of various patches for PostgreSQL, including new Jsonb functionality and syntax, additional support for pluggable storage, bugfixes and doing patch review.
- postgres-bcc A bcc-like set of tools to monitor low-level information about PostgreSQL using BPF
- pg_simdjson PostgreSQL extension for creating jsonb objects using simdjson parser.
- patroni A template for PostgreSQL High Availability
- postgres-operator Kubernetes operator for management of PostgreSQL clusters on Kubernetes
- Mindojo Platform for adaptive online education for both tutor and student sides (e.g. GMAT for The Economist Group, or CFA I for Bloomberg). Url: mindoyo.com
- jsonbx jsonbx extension for PostgreSQL 9.4, and corresponding patch for PostgreSQL 9.5
- Postgraduate work CFD complex for simulating an artificial human heart valve.
- Graduate work Computational program to simulate the movement of waves.

EDUCATION

- 2012–2017 Postgraduate, KemSU, Kemerovo.
 - Specialty Mathematic modeling, numerical methods and program systems.
- 2007–2012 Graduated mathematician-system programmer, KemSU, Kemerovo.
 - Specialty Applied mathematics and information science.