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| **Peter Demin** Rockville, MD |  |

A software developer with more than 15 years of experience in small and large-scale Python applications development. I always look for opportunities to learn and master new skills. I also have high technology flexibility, proven by my employment history. Currently, my hottest interests are software design and effective engineering organizations.

# **Key technical skills**

| **Platforms:** | Linux (Ubuntu), OSX, Windows |
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| **Languages:** | Python, SQL, C++, JavaScript |
| **Frameworks:** | Flask, Django, Qt, Backbone.js |
| **Libraries:** | gRPC, Protobuf, Jinja2, NumPy/SciPy, Pandas, STL, jQuery |
| **Utilities:** | git, svn, bash, vi |

*See more details at the bottom*

# **Professional experience**

| Software Developer  Moveworks Inc  11.2019 - Present | Moveworks is a cloud-based AI platform purpose-built for large enterprises that solves one, big, frustrating problem: Resolving employees' IT support issues. We are an engineering-led advanced AI team that is building autonomous AI to solve IT issues, instantly and automatically - with no human intervention.  My responsibilities:   * Integrations with popular chat platforms, such as Slack, MS Teams, and Google Chat. * Markup conversions between several flavors of Markdown, HTML, and proprietary formats. * Tooling for performance and outage monitoring. * Multilingual support for bot response templates. * Third-party dependency management strategy and tracking. |
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| Environment | Kubernetes, Bazel, Python, gRPC, protobuf, aiohttp, Jinja2, GitHub, Grafana, Kibana, PagerDuty, Kafka, DynamoDB, Redis, Jira, Confluence. |
| Python Programmer  Ariadne Inc.  contractor in  National Center for Biotechnology Information in  National Institute of Health  10.2015 – 10.2019 | GrantHub – public aggregation API for searching the catalog of biological grants.  Service collects grants information from a number of big authorities and offers API for other small-sized sources. All grants are converted to unified representation, stored in a database, and indexed in Solr, providing fuzzy search and suggest capabilities.  Achievements:  • Relocated to the USA with an H1B visa. • Waited four years to get a green card. |
| Environment | CentOS, Python, Django, Django-RestFramework, celery, SqlAlchemy, Microsoft SQL, Solr, git, Stash, Jira, Teamcity. |
| Lead Software Engineer  Epam LLC  outsourcing for DDN storage  04.2015 – 09.2015 | ddn.com – leading private cloud storage solutions. My team developed cluster configuration management tools for provisioning and orchestrating different cloud storage configurations.  System wrapped SaltStack with a set of command-line utilities that simplified the provisioning and configuration of complex environments.  The main targets were high-speed with zero-downtime maintenance and scalability.  During development, we contributed to SaltStack public formulas and SaltStack itself.  Achievements:  • Implemented graceful rolling upgrade between major Hadoop version;  • Developed GPFS cluster provisioner with SaltStack, including continuous delivery pipeline;  • Learned and applied Scrum in a distributed team.  Trainings:  • Scrum fundamentals;  • Agile planning techniques;  • USA culture for negotiations. |
| Environment | CentOS, Python, SaltStack, rpm, yum, git, jinja2, Zookeeper, Hadoop HDFS, IBM GPFS, Amazon S3, SNMP, ganglia, Jenkins, gerrit, Docker, vagrant, packer, VirtualBox, rally.com |

| Software developer  Yandex, JSC  10.2013 – 04.2015 | Yandex.Walks - geo-social startup inside umbrella corporation for sight-seeing recommendations based on POIs mined from public geo tethered photos.  Technically designed as multi-service architecture, spanning on 26+ hosts in the production environment.  Achievements: • Developed fault-tolerant high-load services (Python, Flask); • Designed database schemes and migration scenarios (MySQL, Alembic); • Designed and documented HTTP API for mobile devices (Sphinx, English, bash); • Implemented debian-based deployment process; • Crafted administration web-panels (both frontend and backend).  Things used: linux(ubuntu), nginx, debhelper, bash, python, flask, jinja2, babel, eve, sqlalchemy, alembic, sentry, celery, pymongo, scikit-learn, wtforms, cerberus, mysql, mongodb, git, ssh, uwsgi, npm, grunt, less, coffeescript, jquery, underscore, mustache, backbone, twitter bootstrap. |
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| Environment | Ubuntu, Python, Flask, Django, git, MySql, MongoDB, Celery, Sentry, Elasticlog, SOA, multi-datacenter, babel (gettext), scikit-learn, npm, less, coffeescript, jquery, backbone.js, twitter bootstrap 3. |

| Software developer  Yamir, LLC  04 — 11.2013 | Ambitious startup in the field of intonation recognition and psychology.  System consists of two parts:   1. C++ application, that converts .wav file to numerical speech characteristics. 2. Django-based web interface – training system for call-center employees, who listen to assignment and record answer.   When I entered first part was working with reasonable quality and performance, second part was partially done by outsource company.  Responsibilities: • Building software development processes (git, redmine, e-mail, skype); • Release planning; • Front-end development for simulator and administrating panel; • Development of new features.  Achievements:  • Made major release;  • 90% test coverage;  • Migrated schema and data from MongoDB to PostgreSQL.  Unfortunately, the investor left the project 2 weeks before the scheduled pilot. |
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| Environment | Windows Server, Python, Django, PostgreSQL, MongoDB, gettext, jquery, git, Sentry, Redmine. |

| Software developer  Mars, FSUE EDB  03.2009 —04.2013 | Government company, specialized on making navigation systems. Both hardware and software. I was working in department, responsible for flight simulation and functional testing. For historical reasons, my department (and specifically me later) was also responsible for developing library of standard functions (mainly math) for onboard system.  I worked there for 4 years taking part in several quite different projects. Also I wrote my graduation project and served in the army there.  Responsibilities:  • Spaceflight simulator development and support;  • Development of a library of standard functions for the onboard control system;  • Development tools for implementing the technical processes;   Achievements:  • Development of easy-to-use document generation system (Python, PyUNO, XML); • Development of a regression testing framework for board algorithms (Python, XMLRPC, xmpppy);  • Development of three-dimensional visualization of space flights (C++, OpenGL); • Refactoring spaceflight simulator (C++, MFC);  • Static analysis tool for not quite standard C (Python, C++, boost.wave); • Consult colleagues on technical matters, training of new employees; • Implementation of the import plugin for MoinMoin wiki-engine; |
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| Environment | Windows, C++, Python, MSVS, svn, SQLite. |

| Software developer  09.2006 – 10.2008  InfoPolitan, JSC | My first paid job. Small company founded by two lecturers of my university department. Company took every available job, so my experience was broad, but shallow.  Achievements:  • Complex development of cockpit simulator of the MiG-23 (assembler, C++); • Site search implementation (PHP); • Administration of a local network of 10 computers (Windows). |
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| Environment | Windows, C++, assembler, MSVS, Python |

# **Education**

2005 – 2011, Master of Science in Robotics and Intellectual Systems (Sighting and Navigational Systems), Moscow Aviation Institute, Russia

# **Detailed Skills**

| **Skill** | **Level** | **Use** | **Years** |
| --- | --- | --- | --- |
| Python | Expert | Currently | 10+ |
| ANSI SQL | Advanced | Currently | 4 |
| C++ / STL | Intermediate | Till 2013 | 5 |
| Git | Expert | Currently | 10+ |
| Linux (Ubuntu) | Advanced | Currently | 10+ |
| HTML / JS / CSS | Intermediate | Currently | 10+ |