

Personal Information

Name	Artem Mezhenin
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Summary

I'm software developer with mathematical background. I'm very competent in web development, database design and message queues. I worked on several *intelligent* and *data-centric* web applications, and have experience in design and optimization of high-loaded systems.

In free time I make small contributions at Github, StackOverflow and hack on random stuff. I love to learn new languages, algorithms, databases and participate in programming contests. I also write to my own blog, when I have something to share with community.

I am interested in:

- Web development, databases
- Machine learning and data analysis
- Algorithms, data structures
- Distributed systems design, highload systems

Experience

Freelance Developers

November 2013 – present. Toptal, LLC

- **Terminal.com:** deploying machine learning and data analysis IPython notebooks to their platform. **Skills:** IPython, scikit-learn, Kaggle.com, pandas.
- Fullstack Developer at **Vidfluent.com:** developed video recording app for salespeople. **Skills:** AngularJS, Node.js, Django, Python, AWS, Firebase, Ziggeo.

Senior Developer

August 2014 – April 2015. TelepathData, Inc., Remote.

- Wrote modules for email analysis system in Scala and Play
- Refactored monolithic Scala components into more modular structure
- Developed new frontend modules with AngularJS and simplified existing code with Restangular, lodash and other libraries
- Wrote functional tests with Selenium and Scala to tests functionality from user perspective

- Used Mocha and Chai for testing AngularJS modules
- Added Google Analytic to track basic information about user behavior

Backend Developer (via Toptal)

December 2013 – July 2014. WiserTogether, Inc., Remote.

- Developed health-care knowledge base in Python/Django and MongoDB
- Provide REST API to this database with complex graph traversal scenarios
- Created automation scripts for Openshift instance management
- Covered 100% of code with tests
- Wrote automated migration tool (similar to South) for model updates in MongoDB
- Communicate in English with distributed team

Senior Python Developer

December 2012 – November 2013. Metabar, Moscow.

- Designed system for Internet statistics collection
- Replaced existing MongoDB sharding cluster(3 shards) with single replica set, after deep optimization and refactoring
- Developed highload backend with Python/Celery and RabbitMQ, that serves >50M tasks per day
- Created custom OLTP/OLAP solution with MongoDB, that serves >30M op. per day
- Provided support and disaster investigation for production servers
- Automate deployments with Fabric
- Wrote asynchronous services on top of Yandex.Market API with Gevent
- References: Mike Ushakov <mr@metabar.ru>, CEO at Metabar

Senior Developer

August 2011 — December 2012. Tehnodar, Petrozavodsk

- Created vehicle tracking Web application in Python/Django
- Developed high-loaded database (MongoDB, >10M new geospatial data points per day)
- Designed scalable and failover architecture of the system
- Project planning
- Made significant performance boost by applying NumPy (package for scientific computing) for data analysis
- Install and maintain servers for project needs

Developer

May 2008 – October 2010. Petrozavodsk State University, Department of Computer Science

- Created multiblog client application for the Maemo/MeeGo platform
- Designed application architecture and API
- Implemented lightweight ORM to support offline mode
- Integrate application with different web services
- Wrote unittests and doxygen comments

ACM ICPC contestant

- Studied algorithms and data structures for 3 year
- ACM ICPC 2008-2009, NEERC, Certificate of Achievement

Skills

Programming	Python, Scala, JavaScript, Node.js, Go(golang), C, Java, HTML/CSS
Frameworks and libs	Django, Celery, AngularJS, Play, Akka, pandas, Selenium, Gevent, Flask, ZeroMQ, Fabric, RequireJS, Bootstrap
Tools	Git, Mercurial, Eclipse, IntelliJ IDEA, PyCharm, Jekyll
Databases	MongoDB, PostgreSQL, MySQL, Redis, CouchDB, Memcache, sqlite, ElasticSearch, RabbitMQ
Integration patterns	RPC, Messaging, REST
Administration	Linux, AWS, gunicorn, uwsgi, Apache, Nginx, supervisor, runit, Openshift

Education

Petrozavodsk State University, Russian Federation
Bachelor degree in Applied Mathematics, 2010
Master degree in Information Systems, 2012

Additional education

- **Bioinformatic Methods I** by Nicholas James Provart (University of Toronto). Coursera online course, 2017.
- **Introduction to Bioinformatics** by Alla Lapidus and others (Saint Petersburg State University). Coursera online course, 2017.
- **The Data Scientist's Toolbox** by Jeffrey Leek (Johns Hopkins University). Coursera online course, 2014.
- **Introduction to Parallel Programming** by John Owens(University of California) and David Luebke(NVIDIA Corp.). Udacity online course, 2013.
- **Algorithms**, Part I by Robert Sedgewick and Kevin Wayne, Princeton University. Coursera online course, 2012.
- **Machine Learning** by Andrew Ng, Stanford University. Coursera online course, 2012.
- **CS188.1x: Artificial Intelligence** by Dan Klein and Pieter Abbeel, University of California, Berkeley. Edx online course, 2012.
- **M101 MongoDB for Developers** by Andrew Erlichson. 10gen online course, 2012.
- **M102 MongoDB for DBAs** by Dwight Merriman. 10gen online course, 2012.

Links

StackOverflow	http://stackoverflow.com/users/1325846/amezhenin
LinkedIn	http://www.linkedin.com/pub/artem-mezhenin/59/847/ba6
GitHub	https://github.com/amezhenin
Toptal	http://www.toptal.com/resume/artem-mezhenin

Talks

- MongoDB in a real world projects. Tbilisi MongoDB user Group, 2014.