Alexander Chernetsky

Education

2009-2014 **Mathematician–software degree**, *BSUIR*, Minsk.

Graduated from *Belarusian State University of Informatics and Radioelectronics* in *2014*. Received *mathematician–software* degree.

Diploma project

title *Service to provide distributed locks and storage of configurations*

description Development of an service for obtaining distributed locks using *RAFT* consensus algorithm was the goal of the diploma project. My work was based on the article "In Search of an Understandable Consensus Algorithm" by Diego Ongaro and John Ousterhout presented in Stanford University. I received a high grade for my diploma project and was offered to continue education to receive second stage of higher education, as well as teach students at "Computer science" department.

Experience

Gurtsoft (http://gurtam.com), Minsk

August 2012 - Present **Developer of Gurtam GIS services**.

Support of legacy code of GIS service such as Gurtam Maps, geocoding and reverse geocoding, also bug-fixing and implementation of new features.

tools *Linux, C++, gcc, GNU make, Berkeley DB, git.*

Key developer of Gurtam routing service.

Development of service for computing optimal routes in road networks. I have developed so far the following key parts of system:
- a construction of road graph from different sources (Polish Map Format, Shapefile format and OSM) and and merging them into a single unit;
- a preprocessing of Road Networks with Contraction Hierarchies;
- a shortest path computation in road networks with turn costs;

tools *Linux, C++, Boost, OMP, gcc, GNU make, Berkeley DB, git.*

Key developer of Wialon apps.

I have implemented a few applications. Among them are Driving Logbook, Dashboard, Gurtam Maps and iDriveSafe IQ. They are implemented using Wialon Hosting and Wialon Kit SDKs. Driving Logbook allows requesting reports/a report for a unit's trips with an opportunity of adjusting trip status and making user's notes. Dashboard provides overview of fleet KPIs (key performance indicators) in an easy to read real-time user interface to enable instantaneous and informed decisions to be made at a glance. Gurtam Maps can be used in two ways: to search location and address by given coordinates and to search location and coordinates by given address or its part. iDriveSafe IQ is a comprehensive driving quality control system that allows to evaluate drivers' behavior and the way they treat their vehicles.

tools *Javascript, Backbone, RequireJS, git.*

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Key developer of GPS Tag Pro and GPS Tag Orange iOS apps.
Application that helps determine your geographical position and track your movements. Full application development, bug-fixing, support of legacy code.

tools   *Xcode, Objective C, SQLite, git*

Developer of hosting.wialon.com.
Web-based GPS tracking software platform. Implementation of new features, bug-fixing, support of legacy code.

tools   *Linux, JavaScript, Qooxdoo, Tcl, git.*

Key developer infrastructure for gps.velcom.by.
Personal GPS tracking web-based service. Development of the website and provisioning API, bug-fixing, support of legacy code. At the same time I implemeted simple Python wrapper for Wialon Remote API.

tools   *Linux, JavaScript, Qooxdoo, Python, Tornado, Fabric, Tcl, git.*

Y-NODE Software (http://y-node.com), Minsk

June 2011 - August 2012

Developer of oekostrom-fuer-alle.de.
Official site for *ÖfA Ökostrom für Alle GmbH company*. Implementation of new features, bug-fixing, support of legacy code.

tools   *Linux, Python, Django, jQuery, PostgreSQL, git, memchached.*

Key developer of Ökostrom WechselApp.
Official iOS app for *ÖfA Ökostrom für Alle GmbH* company. Full development of the app, and server-side programming using Django.

tools   *Objective C, Xcode, Python, Django, Javascript, PostgreSQL.*

Developer of invitebox.com.
InviteBox is a widget for swift referral promotions over social networks, email, and mobile phones. Implementation of new features, bug-fixing, support of legacy code.

tools   *Linux, Python, Django, jQuery, PostgreSQL, DjangoCMS.*

Developer of notsharingmy.info.
Web anonymizer which — among other features – generates anonymous emails for users so that they do not disclose their personal ones. Implementation of new features and protection mechanisms, bug-fixing.

tools   *Linux, Django, Python, MongoDB, jQuery.*

On the Web

- http://github.com/achernetsky
- http://linkedin.com/in/achernetsky

Languages

English   Pre-Intermediate
Russian   Native

Tools used at work

Languages	Objective C, C++, Python, JavaScript	Operating systems	Linux
Databases	PostgreSQL, SQLite, MongoDB, Berkeley DB	Mobile development	iOS

Revision control	git, svn

Tools used in personal/educational projects

Languages	C, Java, Scala, Scheme, Octave, assembly language	**Databases**	MySQL, CouchDB

Interests

- Functional programming
- Web development
- Mobile development