

# Alex Denisov

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📄 <https://lowlevelbits.org>

*Software should be beautiful. Both inside and outside.*

## Projects

### Commercial Projects

Uberchord <https://itunes.apple.com/US/app/id952669753>

**Your personal guitar trainer.**

Introducing various testing techniques to improve quality of the code base and improve maintainability.

Blacklane <https://itunes.apple.com/us/app/blacklane/id524123600>

**Client app for the Blacklane customers.**

Introduced Unit Testing.

Implemented event tracking to understand the users better.

Constantly improving maintainability of the code base.

Talendo <https://itunes.apple.com/us/app/talendo-jobborse-und-stellen/id763634231>

**Job-search portal for German market.**

Helped a designer to improve mockups and overall user-flow.

Developed API specifications for backend team.

Developed the app from a proof of concept to the AppStore.

Set up beta testing via Enterprise Distribution.

### OpenSource Projects

Clang <http://clang.llvm.org>

**C/C++/Objective-C compiler.**

Extended Objective-C's boxed expressions to accept C structures and unions.

Implemented new warning for Objective-C.

Fixed couple of bugs.

Committer since Feb, 2015.

My contribution:

<https://github.com/llvm-mirror/clang/commits?author=AlexDenisov>

Mull <https://github.com/mull-project/mull>

**LLVM-based mutation testing system.**

Currently it supports C++ and GoogleTest.

Here is the idea explained:

<https://lowlevelbits.org/llvm-based-mutation-testing-system/>

Components <https://github.com/AlexDenisov/Components>

**Makefile-based approach to manage dependencies.**

<https://lowlevelbits.org/components-management/>

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## Experience

- Jul 2016 - **Software developer**, *Uberchord, Berlin, Germany*,  
Present <https://www.uberchord.com>.  
Maintaining existing app: implementing new features, fixing bugs.
- Sep 2014 - **Software developer**, *Blacklane, Berlin, Germany*,  
Jun 2016 <https://blacklane.com>.  
Maintaining existing apps: implementing new features, fixing bugs.
- May 2013 - **Software engineer**, *Railware, Kiev, Ukraine*,  
Aug 2014 <http://railware.com>.  
Assessment of requirements for software development and time estimation.  
Taught backend developers how to write iOS apps and learned from backend developers how to write backends.
- Oct 2012 - **iOS developer**, *Stanfy LLC, Kiev, Ukraine*,  
Mar 2013 <http://stanfy.com>.  
Assessment of requirements for software development and time estimation.  
Software development.
- Feb 2011 - **iOS/RubyOnRails developer**, *MLSDev LLC, Donetsk, Ukraine*,  
Oct 2012 <http://mlsdev.com>.  
Assessment of requirements for software development and time estimation.  
Software development. Web-services deployment and support.
- Aug 2010 - **C++/Qt developer**, *WiseTroll (Sole Proprietorship), Donetsk, Ukraine*.  
Feb 2011 Assessment of requirements for software development and time estimation.  
Software development.

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## Technical Skills

- Languages Objective-C, C++, Bash, Perl, Scala, OCaml  
VCS Git, SVN, Mercurial  
OS OS X, Linux (Debian), FreeBSD  
Techniques TDD, XP, Scrum, Kanban

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## Education

### University

- Oct 2006 - **Software Development**, *Computer Academy "Step", Donetsk, Ukraine*.  
Dec 2011 Team member, represented Ukraine at the final of ImagineCup'10 at Poland.
- Sep 2006 - **Management of Organizations, Bachelor**, *Open International University of Human Development "Ukraine"*.  
Jul 2010

### MOOCs (Coursera)

- Sep 2015 - **Automata**,  
Nov 2015 *Learned a lot about automata, regular languages, grammars &c.*,  
<https://www.coursera.org/course/automata>.
- Apr 2015 - **From Nand to Tetris / Part I**,  
Jun 2015 *Learned basics of logic circuits. Implemented Assembler for a 'toy' machine*,  
<https://www.coursera.org/course/nand2tetris1>.
- Sep 2014 - **Functional Programming Principles in Scala**,  
Nov 2014 *Learned basics of functional programming*,  
<https://www.coursera.org/course/progfun>.

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## Public Activity

### Speaking

- FOSDEM **Mutation Testing: Leaving the stone age.**  
2017 Link: [https://fosdem.org/2017/schedule/event/mutation\\_testing/](https://fosdem.org/2017/schedule/event/mutation_testing/)
- RIT++ 2016 **Getting started with LLVM using Swift.**  
Link: <http://appsconf.ru/2016/abstracts/2165>
- FOSDEM **How to use LLVM C API with Swift.**  
2016 Link: [https://fosdem.org/2016/schedule/event/llvm\\_c\\_swift/](https://fosdem.org/2016/schedule/event/llvm_c_swift/)
- Mobile **Magic Behind Xcode, Compilation.**  
Warsaw Slides: <https://speakerdeck.com/alexdenisov/magic-behind-xcode>
- CocoaHeads **Compilation Process, How a program is born.**  
Berlin Slides: <https://speakerdeck.com/alexdenisov/compilation-process>
- CocoaHeads **BloodMagic, Custom property attributes for Objective-C.**  
Berlin Slides: <https://speakerdeck.com/alexdenisov/bloodmagic>

### On the Internet

- Blog <https://lowlevelbits.org>
- Blog <https://systemundertest.org>
- GitHub <https://github.com/AlexDenisov>
- StackOverflow <http://stackoverflow.com/users/829116/alexdenisov>
- LinkedIn <http://www.linkedin.com/pub/alexey-denisov/2a/bab/a29>