

# Karpenko Denis

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## Experience

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### Programmer at Skoltech Robotics Lab (Mobile robots)

September 2016 – Present

- I developed a 5 mm precision localization algorithm based on ParticleFilter for Robotics competition (Python)
- I have developed architecture and protocol for communication between STM32 and RaspberryPi (Python and C)
- **Summer 2017 Internship at the well-known Russian startup RoboCV**

### Participant of Google Summer of Code

May 2016 – September 2016

- I've written a Transport Layer Security library for [KolibriOS](#) in flat assembler and successfully finished the program
- Description of the project: <https://github.com/Bandd-k/TLS-Library>

### Chief Technology Officer at Express Food (Startup)

May 2015 – November 2015

- I am one of two startup founders
- I have written a product parser using Python and automatically got from shop websites about 5000 products with their images, descriptions, weights and so on
- I have fully developed a native iOS application in Swift and backend for the service
- Links: <https://itunes.apple.com/ru/app/express-food/id997335666?mt=8> (iOS 7), <http://expfood.ru/>

### Academic assistant at Algorithms and Data structures course at HSE

September 2015-January 2016

- I was offered the competitive position for only the top programming students
- I helped lecturer to prepare tasks and consulted students

## Education

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### Fintech school at Tinkoff bank (iOS track)

April 2017- June 2017

- I successfully developed a location-based messenger and received a perfect score at financial course
- 40 out of 500 candidates accepted into the school. Only 15 students finished the school

### Master's IT/Robotics technologies at Skoltech

September 2016- Present

- I have passed 6 challenges and 2 interviews and was successfully enrolled in the university
- I successfully pass such courses: Probability and Beyond, Data Processing, Intro to Data Science, Robotics and so on

### Bachelor's Computer Science at Higher School of Economics

September 2012- June 2016

- I have achieved a reference letter from the Deputy Head of the faculty for perfect results in Algorithms and Data structures course
- I got excellent grades in programming related courses such as the theory of databases, fundamentals of programming, programming languages, artificial intelligence and so on
- My Bachelor's thesis is "Development of cloud service for program autotuning"

### Mobile developer summer school by Empatika and IBM

July 2015

- I was one of the top 15 applicants from CIS countries
- I have successfully finished it and developed an application which based on iBeacon technology and I became a prize-winner of Mobile Hackathon at the end of the school

## Skills

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### iOS app development

- My latest development is 'ShakY app' (6000 downloads), App Link: <https://itunes.apple.com/app/id1086811070?mt=8>
- Self-made website <http://shakyapp.ru/> and Promo video <https://www.youtube.com/watch?v=5YVLT0jxbul>

### Programming skills

- I am familiar with a lot of programming languages, but my main tools are Python, C++, and Swift
- Prize-Winner of Russia programming cup and Semifinalist of World programming cup ACM ICPC
- Prize-Winner of student Universiade 2016 by Higher School of Economics in Software Engineering discipline
- Winner of Russian Robotics Cup and took the 5<sup>th</sup> out of 350 places in Europe Finals