

# Dmitrii Abramov

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## Education

2016-2020 **Higher School of Economics**, Saint Petersburg, Russia  
Pursuing a BS degree in COMPUTER SCIENCE

- Current classes: Alternative JVM languages, software engineering, statistics, compilers, databases
  - Passed classes: Software Design, Algorithms and Data Structures, Computer Networking, Computer Systems Architecture, Operating Systems, Discrete Mathematics, Programming Paradigms, UNIX, Probability Theory, Algebra, Calculus, Java, C++, Lambda Calculus and Functional Programming, Type Theory, Formal Languages.
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## Projects

APRIL-MAY 2017	<b><a href="#">ROS Map Generator</a></b> I have implemented tool on to generate random maps, representing environment used for robots' navigation systems in ROS project (open source robotic software). Generated maps are being exported to specific format that can be used with ROS map server. The resulting generator tool can be used for testing SLAM algorithms. I also learned some modern techniques of C++14 programming while working on this project.
FALL TERM 2017	<b><a href="#">CityQuest</a></b> This is a service for outdoor quests in reality. I've been managing teamwork process and implemented Android application for passing quests. I used Google Drive API and Google Auth for user accounts system and storing and sharing user progress. App supports various types of quest task and it's functionality can be easily extended. The entire app is implemented using Java and Android API.
SPRING TERM 2018	<b><a href="#">Dota Deep-RL with demonstrations</a></b> This is a research project about how deep reinforcement learning with demonstrations method may be applied to a complex environment like Dota 2 game.
FALL TERM 2018	<b><a href="#">After Effects PinTool plugin</a></b> As a part of <a href="#">KeenTools</a> team, I've been implementing version of PinTool plugin for Adobe After Effects. I've implemented integration with After Effects, custom rendering engine and positioning system based on solving Perspective-n-Point problem.
SPRING 2019	<b><a href="#">BIOCAD intelligent production scheduling</a></b> I've participated in Hackuniversity (All-Russian University Hackathon). The project of my team was creating the tool for production schedule optimisation and schedule management. I've implemented data processing, schedule building algorithm, backend in Python and deployed it in the cloud (AWS) along with Postgres DB.

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## Skills and Technologies

### Used in projects:

Python, Kotlin, C++, Java, Android.

### Classroom experience:

Scala, Haskell, OCaml, C, Bash, SQL, x86 Assembly, Go, JavaScript, HTML/CSS.

### Tools:

Docker, Git, Tensorflow, Jupyter, Linux, IntelliJ, Traivs CI,  $\LaTeX$ .

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## Related Work Experience

2017, 2018	<div data-bbox="293 128 768 159">SUMMER INFORMATICS SCHOOL, Russia</div> <div data-bbox="293 159 391 191"><i>Teacher</i></div> <div data-bbox="293 191 1027 222">Teaching Python, algorithms and data structures to high school students.</div>
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