



# Polina Shilikhina

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## *Curriculum Vitae*

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### Education

- 2001 – 2012 Gymnasium, Voronezh, Russia (final grade - 1.0)
- 2001 – 2013 Music school, Voronezh, Russia (vocals, violin, piano. Final grade - 1.0)
- 2015 – 2017 German courses (Alpha Aktiv, SLI, VHS, language center Dialogo)

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### Higher Education

- 09/2012 – 09/2015 Voronezh State University, Russia (applied mathematics, informatics and mechanics)
- 04/2015 - 09/2015 University of Freiburg, Germany (computer science, exchange semester)
- 04/2017 – 10/2021 University of Freiburg, Germany (B.Sc. mathematics, final grade - 1.9, Bachelor thesis topic: "Reinforcement learning algorithms implemented on 3D printed robotic hand", grade - 1.0)
- Since 04/2021 University of Freiburg, Germany (M.Sc. computer science)

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## Professional Experience

05/2018 – 04/2019 Research assistant, University of Freiburg, Department of Microsystems Engineering - IMTEK, Germany

Duties, tasks and projects:

- Software development (Python, C, C++),
- Development and coordination of new chair projects (e.g. based on Raspberry Pi, Brick CC or Arduino),
- Working with various Windows and Linux based operating systems and programs,
- Support for robot competitions and other ongoing events,
- Direct collaboration with students,
- Soldering circuit boards.

Since 05/2019 Software Developer, endiio Engineering GmbH, Freiburg, Germany

Duties, tasks and projects:

- Software development (Python, C, C++, Javascript),
- Project management,
- Automated software testing,
- 3D printing,
- Ensuring the achievement of development goals, taking costs into account, deadlines and project specifications,
- Development of ML based solutions,
- Soldering circuit boards, assembling systems,
- Product quality control and product management,
- Direct communication with customers,
- Presentation of products at trade fairs (e.g. Hannover Messe or CloudFest).

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## Internship

07/2014 - 08/2014 Learning about SAP - development environment and SQL, database development, Ekvitas, Volgograd, Russia

08/2014 - 09/2014 Lectures on the following topics: Java, .NET, PHP, Android, Ruby, Python, C++, iOS, Scala, Data Art, Voronezh, Russia

10/2021 - 03/2022 Face-mask detection with the Kuri robot. Freiburg, Germany

09/2022 - 10/2022 Ignaz Kögler Research Summer Camp 2022 "KI und Mobilität der Zukunft". Ingolstadt, Germany - <https://www.ainin.de/camp/>

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## Competitions

- 10/2017 – 02/2018 3rd place in the robot competition at the University of Freiburg, Germany, System Design Project - <https://bit.ly/39F9M4K>
- 2021 Alumni award for social engagement from the association Alumni Freiburg e.V. at the University of Freiburg, Germany - <https://bit.ly/3iaM8BM>
- 2021 Phase 1 winner in OpenCV AI Kit 2021 - Extension of a 3D printed robotic hand with an OAK-D camera - <https://bit.ly/3zK0P4Z>
- 2021 1st place in the VELA semester grant WS 2021/2022 - <https://bit.ly/3EYkdiJ>

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## Certificates

- 2022 Machine Learning, Stanford University - <https://bit.ly/3LXgGDD>
- 2022 Foundations of Project Management, Google - <https://bit.ly/3KDLwRI>
- 2022 Project Initiation: Starting a Successful Project, Google - <https://bit.ly/3rkiqzb>
- 2022 Project Planning: Putting It All Together, Google - <https://bit.ly/37Xqwac>
- 2022 Project Execution: Running the Project, Google - <https://bit.ly/3xqEv28>
- 2022 Agile Project Management, Google - <https://bit.ly/3RiP66L>
- 2022 Capstone: Applying Project Management in the Real World, Google - <https://bit.ly/3P0JsYF>
- 2022 Command Line Basics in Linux, Coursera Project Network - <https://bit.ly/3W3u4e3>

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## Secondary Activities

- 2011 – 2015 Waitress, bartender, Voronezh, Russia
- 10/2015 – 05/2016 Bartender, McCafe, Freiburg, Germany
- 05/2016 – 12/2016 Bartender, Skajo Restaurant, Freiburg, Germany
- 01/2016 – 06/2017 Barista and waitress, Cafe ViKreGo, Freiburg, Germany
- 12/2017 – 05/2018 Barista, Manna, Freiburg, Germany

## Language Skills

- Russian - native speaker
- German - C1
- English - B2
- Dutch - B1
- French - A2

## Hobbies

- Volunteer support for high school students: tutoring on school topics, IT support, soldering projects, programming tasks, mentoring
- Smart home: Google Home, Apple Homekit, Loxone, Node-RED, Philips Hue, Tado, Nanoleaf, and many more.
- Music - Pitch perfect, various instruments and vocals, own CD with classical music