

# Alexey Kulikov

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## EDUCATION

### MOSCOW INSTITUTE OF PHYSICS & TECHNOLOGY

MS IN APPLIED MATHEMATICS & COMPUTER SCIENCE

Expected July 2019 | Moscow, Russia

### BS IN APPLIED MATHEMATICS & COMPUTER SCIENCE

Grad. July 2017 | Moscow, Russia

Major GPA: 3.4/4.0 | Cum. GPA: 3.4/4.0

### BACHELOR THESIS

Subject: N-gram models applied to OCR error correction in Japanese

### COURSEWORK

Algorithms & Data Structures • Computational Linguistics • Theory of Computation • Discrete Analysis • Linear Algebra • Machine Learning • Formal Languages & Compilers • Project Management

## SKILLS

### PROGRAMMING LANGUAGES & TECHNOLOGIES

Comfortable with:

C/C++ (flex-bison, Win32 API) •

Python (sklearn, numpy, scipy, nltk) •

Unix (bash, System V IPC) •  $\text{\LaTeX}$

Basic knowledge:

x86 Asm • Javascript • Django • R •

OpenMP/MPI • Hadoop • MS SQL Server •

Valgrind • git • Scrum • Doxygen

### HUMAN LANGUAGES

Russian (native) • English (fluent) •

French (intermediate, DELF B1 diploma, participant of All-Russian Olympiad Finals)

• Deutsch, Spanish (beginner)

## INTERESTS

### LINGUISTICS

Student of MIPT Computational Linguistics department since 2015.

### TEACHING

Teaching experience since 2012.

Several courses in Maths and CS.

Dozens of school contests in Math and Physics: checking solutions, organizational activities.

## EXPERIENCE

### ABBYY | JUNIOR SOFTWARE DEVELOPER

Since February 2017 | ABBYY IHQ (Moscow, Russia)

- Adding new features to the internal ABBYY linguistic software;
- Maintaining the ABBYY Natural Language Compiler Engine.

### MIPT | TEACHING ASSISTANT (COMPILER THEORY)

Since September 2017 | MIPT Moscow, Russia

### ABBYY | KNOWLEDGE ENGINEER

June 2016 – February 2017 | ABBYY IHQ (Moscow, Russia)

- Developed information extraction rules for the ABBYY Compreno technology;
- Resolved over 100 issues on extraction of basic concepts;
- Successfully deployed 2 proof-of-concept projects for corporate clients.

### «INTELLECTUAL» BOARDING SCHOOL

TEACHING ASSISTANT (FORMAL LANGUAGES, MATH, ORIGAMI)

Since 2013 | Moscow, Russia

- Author of Formal Languages course (taught during summer school);
- Led the Math Olympiad course for several years.

## PROJECTS

### ABBYY REDACTION PROJECT MANAGER

Since February 2017 | ABBYY

Part of the project was incorporated into ABBYY FineReader builds.

- Led a team of 7 MIPT students;
- Implemented solutions for Redaction based on ABBYY technologies.

### JIVE COMPILER C++ DEVELOPER

September 2016 – May 2017 | MIPT

- Implemented a parser for the MiniJava language using the flex-bison toolchain;
- Developed AST and IR generators.

### JULES VERNE TRILOGY VISUALIZATION COMPRENO TEAM LEADER

February 2016 – June 2016 | [julesvernetrilogy.com](http://julesvernetrilogy.com)

- Led the Compreno InfoExtraction team;
- Integrated the project with the ABBYY Compreno technology;

### STACK CPU EMULATOR C DEVELOPER

October 2013 – March 2014 | intel iLab

- Designed a stack CPU emulator + custom asm command set;
- Implemented lexical & syntactic analyzers with tree visualization;
- Developed a binary translator into x86 asm.

## AWARDS

2015	Honorable Mention	ACM ICPC Moscow Subregional Contest
2013	Winner (3rd / 1500)	All-Russian internet olympiad in physics
2010	Winner (1st prize)	Intel-Dynasty conference for gifted children (CS section)