

Pavel Berkovich

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Education

- 2013–2016 **University of Cambridge**, *BA (Hons.) in Computer Science*, CLASS II, DIVISION 1.
Relevant courses: *Comparative Computer Architectures, Operating Systems, OOP, Algorithms, Computer Networking, Concurrent & Distributed Systems, Compiler Construction, Databases*
- 2012–2013 **INTO Manchester College**, *International Foundation Programme*.
Mathematics (A*), Further Mathematics (A*), Physics (A*), Research Module (A*).
Best overall result in the year.
- 2010–2012 **Lyceum 1580 at Bauman Moscow State Technical University**, Moscow, Russia.
Mathematics (85/100), Physics (96/100), Computer Science (84/100), Russian (98/100).
Consistently ranked among the top 10 students out of the total of 319.

Technical Skills

Programming Languages

Confident	C/C++	<i>ANSI C, C++14, STL, Boost, POSIX Threads, BSD Sockets</i>
Confident	Java	<i>Core Java SE, Swing, JUnit</i>
Confident	Python	<i>Core Python, twisted, Flask, gtk</i>
Intermediate	Perl	<i>Core language, CGI</i>
Confident	SQL	<i>Logical design, OLAP & OLTP optimisation, DB2/Sybase</i>
Basic	Turbo ASM	<i>Some basic functions, registers and interrupts</i>
Basic	KDB/Q	<i>Basic syntax of Q, some experience with qSQL</i>
Confident	Standard ML	<i>Poly/ML</i>

Tools & Protocols

- | | |
|------------|--------------|
| ○ git | ○ wireshark |
| ○ valgrind | ○ cachegrind |
| ○ g++ | ○ gmake |
| ○ openssl | ○ ksh |
| ○ FIX | ○ JSON |

Employment History

- Aug-Nov 2016 **Morgan Stanley**, *Technology and Data*, Application Development Track,
Technology Analyst Program.
- Jun-Aug 2015 **Morgan Stanley**, *Technology and Data*, FX Desk (Fixed Income),
Technology Summer Analyst.
- Jun-Aug 2014 **University of Cambridge Computer Laboratory**, *Systems Research Group*,
Software Engineering Intern.

Project Experience

N0NaMe

As a final-year project at University, created a **secure messaging** system based on the KleeQ conversation security protocol. The work consisted of several server-side components (in Python using Flask), a cross-platform client application (in Java), and automated evaluation scripts (in Python).

Matrix Fusion

As part of a summer internship at Morgan Stanley, worked on the Matrix **e-trading platform**, in particular the **FX orders** part. Tasks included improving availability of the system (in Python), and developing a web-based tool to track clients' orders (in Perl).

Events@CL

Was the **Project Manager** and Senior Developer in a student effort to build a **local positioning service** based on Bluetooth Low Energy (in Python), and then use it to develop a mobile application for location-based teaching (in Java).

SBUS

As part of a summer research internship, worked on message-passing **middleware** to help simplify managing secure network connections and abstract away I/O complexity (in C++ and Objective-C).

Professional Development and Additional Skills

Continuing Education Courses

December 2014 **Programming in Python**, *Computer Training Center at Bauman Moscow State Technical University.*

February 2012 **Basics of networking and network operating systems**, *Computer Training Center at Bauman Moscow State Technical University.*

January 2011 **Programming in C**, *Computer Training Center at Bauman Moscow State Technical University.*

Additional Qualifications

June 2011 **Diploma in Computational Programming**, *Bauman Moscow State Technical University.*

Languages Known

Russian Native Speaker

English Fluent

Personal interests

Financial Markets Enjoy reading the relevant press. Was part of the Relative Return Fund at Cambridge University Finance and Investment Society.

Basketball District champion as part of school basketball team. Was the captain of the College team for 2 years straight. In 2016, led the team to the 3rd place in the College League.

Technology Startups Enjoy discussing social and economic impact of new tech. Attended many entrepreneurship events and conferences whilst at University.