

# Pavel Berkovich

401 Artisans House  
20 Abbott Rd  
E14 0GD London  
☎ +44 (0)7 463 260 341 (UK)  
☎ +7 915 168 76 61 (Russia)  
✉ [pavel@berkovi.ch](mailto:pavel@berkovi.ch)

## Education

- 2013–2016 **University of Cambridge**, *BA (Hons.) in Computer Science*, 2.I.  
Relevant courses: *OOP, Algorithms, Operating Systems, Computer Networking, Security, Concurrent & Distributed Systems, Databases, Artificial Intelligence, Compiler Construction*
- 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	<b>Scala</b>	<i>Scalatra, Play2, Slick, Scalatest, SBT</i>
Confident	<b>Java</b>	<i>Core Java SE, Swing, JUnit</i>
Confident	<b>C/C++</b>	<i>ANSI C89, C++1x, STL, Boost, POSIX Threads, BSD Sockets</i>
Confident	<b>Javascript / Typescript</b>	<i>AngularJS, Grunt, Webpack</i>
Intermediate	<b>Python</b>	<i>Core Python, twisted, Flask, gtk</i>
Intermediate	<b>Perl</b>	<i>Core language, CGI</i>
Intermediate	<b>Objective-C</b>	<i>Cocoa, CFNetwork, SecureTransport, GCDAsyncSocket</i>
Intermediate	<b>Standard ML</b>	<i>Poly/ML</i>
Intermediate	<b>MATLAB</b>	<i>Basic syntax, plotting functions, file processing</i>
Basic	<b>Turbo ASM</b>	<i>Some basic functions, registers and interrupts</i>

### Tools

- |           |                                   |
|-----------|-----------------------------------|
| ○ git     | ○ L <sup>A</sup> T <sub>E</sub> X |
| ○ gcc     | ○ make                            |
| ○ openssl | ○ jenkins                         |

## Employment History

- Since Nov 2016 **Morgan Stanley**, *Technology and Data*, SPG Trading Technology, Technology Associate.
- 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

### MAMBA

As part of the Technology Analyst Training Programme at Morgan Stanley, managed a team of three developers creating a **web-based** graphical **data analytics** tool for use by the Firm's treasury (AngularJS, TypeScript and Java).

### 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 **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

- Feb 2017 **Functional Program Design in Scala**, *Coursera*.
- Dec 2014 **Programming in Python**, *Computer Training Center at Bauman Moscow State Technical University*.
- Feb 2012 **Basics of networking and network operating systems**, *Computer Training Center at Bauman Moscow State Technical University*.
- Jan 2011 **Programming in C**, *Computer Training Center at Bauman Moscow State Technical University*.

### Additional Qualifications

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

### Languages Known

- Russian Native Speaker
- English Working Proficiency
- Bulgarian Conversational Proficiency

---

## Personal interests

- Startups Extremely excited about how tech brings change to the world. Currently exploring some of my business ideas.
- Basketball District champion as part of school basketball team. Currently the captain of the College team. In 2015/2016, led the team to the 3rd place in the College League.