# Maciej Kruk | Curriculum Vitae

Jagodowa 1 – 32-551 Babice – Poland

📞 +48 604 255 256 • ✉ maciej.kruk@gmail.com • in maciejkruk

## Experience

**u2i LLC**                                                                                        **Krakow, Poland**
*Software Engineer*                                                                          *Oct 2012–Present*
Developing a web application and its backend as part of an Agile team. Personal responsibilities include design and development of a robust and scalable data collection system, performing data analytics and managing the associated infrastructure while working closely with the client.

**Fujitsu Laboratories Ltd.**                                                              **Kawasaki, Japan**
*Algorithmic Researcher, Intern, Vulcanus in Japan Programme*                 *Jan 2012–Aug 2012*
Worked on projects involving combinatorial optimization, formal verification and natural language processing.

**ESISAR, Grenoble Institute of Technology**                                       **Valence, France**
*Software Developer, Intern, LLP ERASMUS programme*                          *July 2010–Sept 2010*
Developed an application for water flow modelling and visualization using Lattice-Boltzmann methods in 2D and 3D.

**Institute of Nuclear Physics PAN**                                                   **Krakow, Poland**
*Software Engineer*                                                                          *July 2009–Aug 2011*
Designed and developed a private cloud system.

**CERN - European Organization for Nuclear Research**                       **Geneva, Switzerland**
*Software Developer, Summer job*                                           *Sept 2007, Feb 2008, Aug 2008*
Optimized and implemented regression and classification algorithms in Toolkit for Multivariate Data Analysis.

**Institute of Nuclear Physics PAN**                                                   **Krakow, Poland**
*Software Developer, Summer job*                                                       *June 2007–Sept 2007*
Prepared a tool for multidimensional event classification for ATHENA detector at CERN.

## Education

**AGH University of Science and Technology**                                       **Krakow, Poland**
*Magister (Master of Science)*                                                               *2011–2013*
Informatics
Specialization: Interactive Systems and Visualization Methods

**AGH University of Science and Technology**                                       **Krakow, Poland**
*Inżynier (Engineer)*                                                                            *2007–2011*
Informatics

## Personal Achievements

**ACM Central Europe Programming Contest**                                       **Krakow, Poland**
*Finalist*                                                                                             *2012*

**ACM Central Europe Programming Contest**                                 **Prague, Czech Republic**
*Finalist*                                                                                             *2007*

**Poznan Open 2006 – Team Programming Championship**                       **Poznan, Poland**
*$1^{st}$ place in junior classification, $7^{th}$ place in open classification*                    *2006*

**XIII Polish Olympiad in Informatics**                                                   **Sopot, Poland**
*Finalist*                                                                                             *2006*

## Languages

**Polish**: Native

**English**: Fluent

**Japanese**: Intermediate <span style="float:right">*Japanese Language Proficiency Test N3, Dec 2012*</span>

## Skills and Competences

**Programming**: C/C++, Java, Ruby, Python

**Big data**: Hive, Hadoop, MapReduce, HDFS

**Scalable systems**: Chef, Amazon EC2, S3, EMR, RDS, OpsWorks, Pacemaker

**Parallel computing**: OpenMPI, CUDA

**Virtualization**: Xen, KVM, QEMU, libvirt

**Environments**: Vim, Emacs, Eclipse, Visual Studio 2012

**Operating systems**: Windows, Linux, OS X

**Others**: Agile methodology, Scrum, Test-driven development, Git

**Specialty**: Advanced algorithms and data structures

## Interests

Travel, literature, skiing, technology.