

# MACIEJ KRUK

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Date of Birth: 17.04.1988  
Place of Birth: Chrzanów  
Nationality: Polish

## EDUCATION

- **Mar 2011 –** *Postgraduate student in Computer Science,*  
Specialization: *Interactive Systems and Visualization Methods*  
AGH University of Science and Technology in Krakow,  
Faculty of Electrical Engineering, Automatics, Computer Science and Electronics
- **Sept 2007 – Feb 2011** *Undergraduate student in Computer Science,*  
Awarded title: *Engineer*  
AGH University of Science and Technology in Krakow,  
Faculty of Electrical Engineering, Automatics, Computer Science and Electronics

## WORK EXPERIENCE

- **Sept 2011 –** *EU-Japan Centre for Industrial Cooperation in Tokyo, Japan*
  - *Vulcanus in Japan* programme participant
  - Four-month intensive Japanese language course in *Naganuma School* in Tokyo
  - Eight-month traineeship in *Fujitsu Laboratories* in Kawasaki
- **Oct 2009 – Aug 2011** *Institute of Nuclear Physics PAN in Krakow, Poland*
  - Cloud management system development and implementation (CC1 project)
- **July – Sept, 2010** *ESISAR, Grenoble Institute of Technology in Valence, France*
  - Implementation of Lattice Boltzmann Models for fluid flows
  - Modeling and visualization of water flow in canal systems
- **July – Sept, 2009** *Institute of Nuclear Physics PAN in Krakow, Poland*
  - Evaluation of Xen and KVM virtualization infrastructures
  - Evaluation of existing cloud management systems
- **Aug 4 – 26, 2008** *CERN – European Organization for Nuclear Research in Geneva, Switzerland*
  - Implementation of regression functionality into classification methods in the Toolkit for Multivariate Data Analysis with ROOT (tmva.sourceforge.net): Probability Density Estimator Range Search, Function Discriminant Analysis, Artificial Neural Networks, Support Vector Machine
  - Implementation of Linear Discriminant regression and classification method
- **Feb 11 – 18, 2008** *CERN – European Organization for Nuclear Research in Geneva, Switzerland*
  - Development of Simulated Annealing minimization algorithm for use in ROOT's multivariate analysis package TMVA (tmva.sourceforge.net)

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- **Sept 15 – 23, 2007**      *CERN – European Organization for Nuclear Research in Geneva, Switzerland*  
- Optimization of Probability Density Estimator Range Search method in Toolkit for Multivariate Data Analysis (tmva.sourceforge.net)
- **June – Sept, 2007**      *Institute of Nuclear Physics PAN in Krakow, Poland*  
- Construction of multivariate analysis algorithm for tauRec package of Athena framework (<https://twiki.cern.ch/twiki/bin/view/Atlas/AthenaFramework>)

## ACHIEVEMENTS

- **2010**      105<sup>th</sup> place out of 4600 contestants in the 2<sup>nd</sup> edition of Google AI Challenge
- **2007**      AGH representative at ACM Central Europe Programming Contest
- **2006**      1<sup>st</sup> place in junior classification (7<sup>th</sup> in open classification) in the Team Programming Championship “Poznan Open 2006”
- **2006**      Finalist of the XIII Polish Olympiad in Informatics

## SKILLS AND COMPETENCES

- **Languages**

*Japanese* – intermediate  
*English* – fluent  
*Polish* – native

- **Computing**

*Programming languages (competent):* C/C++, Java,  
*Other languages:* Python, Pascal, Erlang, Lisp, Icon, Ruby, OpenCL, CUDA,  
Assembly 8086, MATLAB, GLSL  
*Computer graphics:* OpenGL 3.3, GLSL  
*Virtualization:* Xen, KVM, QEMU, VMware, libvirt  
*Cloud computing:* OpenNebula, Eucalyptus, Amazon EC2, Amazon S3, Haizea  
*Web related:* PHP, HTML, CSS  
*Databases:* MS SQL, CouchDB  
*Operating systems:* Windows, Linux  
*Version control systems:* SVN, GIT  
  
*Specializations:* algorithmic theory, artificial intelligence, computer graphics,  
virtualization, cloud computing, distributed systems

- **Driving license**

European, category B

## ACTIVITIES AND INTERESTS

Skiing, mountaineering, travel, literature, film, Japanese language and culture.