

MACIEJ KRUK

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POLAND

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

EDUCATION

- **2007 –** First degree student in Computer Science,
AGH University of Science and Technology in Krakow,
Faculty of Electrical Engineering, Automatics, Computer Science and Electronics
- **2004 – 2007** High school student
5th High School in Krakow

WORK EXPERIENCE

- **July – Sept, 2010** *ESISAR, Grenoble Institute of Technology in Valence,*
 - Implementation of Lattice Boltzmann Models for fluid flows
 - Modeling and visualization of water flow in canal systems
- **Oct 2009 –** *Institute of Nuclear Physics PAN in Krakow,*
 - Cloud management system development and implementation (CC1 project)
- **July – Sept, 2009** *Institute of Nuclear Physics PAN in Krakow,*
 - 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,*
 - Implementation of regression functionality into classification methods in TMVA (tmva.sourceforge.net) - PDERS (Probability Density Estimator Range Search), FDA (Function Discriminant Analysis), ANN (Artificial Neural Networks), SVM (Support Vector Machine)
 - Implementation of new regression and classification method – LD (Linear Discriminant)
- **Feb 11 – 18, 2008** *CERN – European Organization for Nuclear Research in Geneva,*
 - Development of Simulated Annealing minimization algorithm for use in ROOT's multivariate analysis package TMVA (tmva.sourceforge.net)
- **Sept 15 – 23, 2007** *CERN – European Organization for Nuclear Research in Geneva,*
 - Optimization of PDERS (Probability Density Estimator – Range Search) method in Toolkit for Multivariate Analysis (tmva.sourceforge.net)

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- **June – Sept, 2007** *Institute of Nuclear Physics PAN in Krakow*
- Construction of multivariate analysis algorithm for tauRec package of Athena framework (<https://twiki.cern.ch/twiki/bin/view/Atlas/AthenaFramework>)

ACHIEVEMENTS

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

SKILLS AND COMPETENCES

- **Languages**

English – fluent
Polish – native
German – basic
Japanese – basic
French – basic

- **Computing**

Programming languages (experienced): C/C++, Java,
Other languages: Python, Pascal, Erlang, Lisp, Icon, Ruby, OpenCL, Assembly
8086, MATLAB
Computer graphics: OpenGL 3.3, HLSL
Virtualization: Xen, KVM, QEMU, VMware, libvirt
Cloud computing: OpenNebula, Eucalyptus, EC2
Web related: PHP, HTML, CSS
Databases: MS SQL, CouchDB
Operating systems: Windows, Linux
Version control systems: SVN, GIT

Interests: algorithmic, numerical analysis, cloud computing , virtualization,
distributed systems, computer graphics

- **Driving license**

European, category B

ACTIVITIES AND INTERESTS

Skiing, mountaineering, travelling, literature, film, modern Japanese culture.