

Maciej Kruk | Curriculum Vitae

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Experience

u2i LLC

Software Engineer

Krakow, Poland

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.

Algorithmic Researcher, Intern, Vulcanus in Japan Programme

Kawasaki, Japan

Jan 2012–Aug 2012

Worked on projects involving combinatorial optimization, formal verification and natural language processing.

ESISAR, Grenoble Institute of Technology

Software Developer, Intern, LLP ERASMUS programme

Valence, France

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

Software Engineer

Krakow, Poland

July 2009–Aug 2011

Designed and developed a private cloud system.

CERN - European Organization for Nuclear Research

Software Developer, Summer job

Geneva, Switzerland

Sept 2007, Feb 2008, Aug 2008

Optimized and implemented regression and classification algorithms in Toolkit for Multivariate Data Analysis.

Institute of Nuclear Physics PAN

Software Developer, Summer job

Krakow, Poland

June 2007–Sept 2007

Prepared a tool for multidimensional event classification for ATHENA detector at CERN.

Education

AGH University of Science and Technology

Magister (Master of Science)

Krakow, Poland

2011–2013

Informatics

Specialization: Interactive Systems and Visualization Methods

AGH University of Science and Technology

Inżynier (Engineer)

Krakow, Poland

2007–2011

Informatics

Personal Achievements

ACM Central Europe Programming Contest

Finalist

Krakow, Poland

2012

ACM Central Europe Programming Contest

Finalist

Prague, Czech Republic

2007

Poznan Open 2006 – Team Programming Championship

1st place in junior classification, 7th place in open classification

Poznan, Poland

2006

XIII Polish Olympiad in Informatics

Finalist

Sopot, Poland

2006

Languages

Polish: Native

English: Fluent

Japanese: Intermediate

Japanese Language Proficiency Test N3, Dec 2012

Skills and Competences

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

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.