



Adam Šenk

Curriculum Vitae

Personal

born 16th of April 1988, in Prague, Czech Republic
status Single

Education

- 2012 - present **Ph.D.**, *Faculty of Information Technology*, Czech Technical University in Prague(CTU), Czech Republic, Department of Software Engineering.
Expected graduation: June 2016
- September 2013 - March 2014 **PhD.**, *Faculty of Computer Science*, Chemnitz University of Technology, Germany, Department of Database Management Systems.
2014 One semester internship
- 2010-2012 **Ing.**, *Faculty of Information Technology*, Czech Technical University in Prague(CTU), Czech Republic, *Program*: Software and Web Engineering.
- 2007-2010 **Bc.**, *Faculty of Electrical Engineering*, Czech Technical University in Prague(CTU), Czech Republic, *Program*: Computer Technology.
- 2007 **A Levels**, *Grammar school*, Gymnázium Roudnice nad Labem, Czech Republic, GPA: 1.75 - equivalent to B+.

Professional Experience

- August 2013 - present **Researcher**, *Chemnitz University of Technology, Faculty of Computer Science*, Chemnitz, Germany.
One semester internship at Professorship of Database Systems. I am working on project focused on XML Big Data processing, specifically on following tasks:
- Preprocessing of XML documents
 - Storing XML documents in Hadoop and distributed database HBase
 - Parallel evaluation of XPath queries via MapReduce framework
- August 2012 - present **Assistant**, *Czech Technical University in Prague, Faculty of Information Technology*, Prague.
Lecturer, leading practical of two courses.
- Database Systems**
- ER model
 - Relational Algebra ,Basics of SQL Language

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Advanced Database Systems

- PL/SQL
- XQuery, XPath
- NoSQL databases, MapReduce
- Graph Databases

August 2012 - December 2013 **Software Developer**, *Czech Technical University in Prague, Faculty of Information Technology*, Prague.

2013 Member of research team, which is developing software for air flow prediction in cooperation with company Altron, responsible for:

- Architecture design
- Programming in Python language
- Developing of software module for XML data preprocessing
- Developing of software module for persistent results storing

April 2011 - August 2012 **Quality Engineer, Tester**, *Oracle, NetBeans*, Prague.

Member of Quality Assurance Team, responsible for:

- Manual testing
- Programming of automated test
- Managing of testing infrastructure
- Evaluation of bug reports

Professional Skills

Programming Languages

- *Java, SmallTalk, Python* - experiences from real projects
- *Ruby, Scala* - experiences from school projects

Programming techniques

- *OOP, Design Patterns*

Database technologies

- *Hadoop, HBase, MapReduce*
- *XML, XQuery*
- *SQL*

General

- *Driving licence*

Language

- *Czech* - native speaker
- *English* - B2, proven by FCE certificate
- *German* - B1

Referee

Marian Mirilovic, *NetBeans QA Manager*.

marian.mirilovic@oracle.com

Peter Franek, *Leader of research team at FIT CTU*.

peter.franke@gmail.com

Michal Valenta, *My PhD thesis supervisor*.

michal.valenta@fit.cvut.cz

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