Alexey Ott's Curriculum Vitae

Personal Information

• Name: Alexey (Alex) Ott

• Address: Paderborn, Germany

• **Phone**: +4917650439409 (mobile)

• E-mail: alexottgmail.com¹ (please use it as primary contact)

• Citizenship: German, Russian

• Date of Birth: 1974

• Personal site: http://alexott.net/en/

• LinkedIn profile: http://www.linkedin.com/in/alexott

• Blog: http://alexott.blogspot.com/

Summary

• Significant experience in products development for information security;

• Leadership in software development projects (commercial & open-source);

• Software architect and developer using different programming languages & technologies (cloud, on-premise);

• Business vision of tasks & requirements, results-oriented.

Work Experience

• Software Architect at Intel Security. (subsidiary of Intel Corporation)

Dates (from-to): 07.2014-now

Name and address of employer: Intel Security², 33100 Paderborn, Germany

Positions held: Software Architect

Type of business: Software Development Main activities and responsibilities:

- Architecture and development of new URL & Content Categorization system using the range of machine learning & big data technologies (Apache HBase, Apache Solr, Apache Spark). Implementing the full machine learning workflow - model design, data collection & cleanup, feature extraction & selection, model evaluation, production deployment. Introduction of new system lead to greater coverage of the categorized resources, increased customer satisfaction, and decreasing of number of escalations;
- Architecture & implementation of the log processing system (Apache Kafka, Apache Spark, Elastic-search);
- Architecture of the CASB (Cloud Access Security Broker) solution involving multiple teams & products. Communication with stakeholders, preparing the architecture, tasks definition for involved teams, evaluation of technologies & prototyping, implementation of some components (Java, C++, Clojure).
- \bullet Mentor at Google Summer of Code 2014

Dates (from-to): 05.2014-08.2014

Main activities and responsibilities: Mentor for the project "Incanter and core.matrix integration"

 $^{^{1}} mail to: a lex ott@gmail.com\\$

²http://intelsecurity.com

• Software Architect at McAfee, Inc. (subsidiary of Intel Corporation)

Dates (from-to): 03.2013-06.2014

Name and address of employer: McAfee, Inc³. 33100 Paderborn, Germany

Positions held: Software Architect Type of business: Software Development Main activities and responsibilities:

- Architecture and development of identity management & CASB (cloud access security broker) components inside McAfee Web Gateway: SSO (Single Sign-On), Cloud Storage Encryption, etc.;
- Coordination of development with other teams, requirements analysis, tasks definition, etc.
- Principal Software Engineer at McAfee, Inc. (subsidiary of Intel Corporation)

Dates (from-to): 04.2011-02.2013

Name and address of employer: McAfee, Inc⁴. 33100 Paderborn, Germany

Positions held: Principal Software Engineer Type of business: Software Development Main activities and responsibilities:

- Architecture and development of web-filtering and data leak prevention software (McAfee Web Gateway);
- Provide training & support for 3rd party developers;
- Quality "tzar", responsible for introduction of quality-improving techniques and methodologies (code reviews, unit testing, analysis of existing problems & errors, etc.)—together with other organizational activities this lead to increase of product's quality, decrease number of customer escalations.
- Author & Editor at Practice of Functional Programming (Journal)

Dates (from-to): 04.2009-04.2011 Main activities and responsibilities:

- Author of several articles on functional programming (Clojure, Scheme, etc.)
- Preparation of new journal issues
- Senior Software Developer at McAfee, Inc.

Dates (from-to): 01.2007–03.2011 (2007–2008—Secure Computing Corp.)

Name and address of employer: McAfee, Inc⁵. 33100 Paderborn, Germany

Positions held: Senior Software Developer Type of business: Software Development Main activities and responsibilities:

- Development of content-filtering software (Webwasher/McAfee Web Gateway);
- Architect of new versions of software—collecting requirements, creating top-level view, planning development activity, etc.
- Head of Software development group & architect at Jet Infosystems

Dates (from-to): 10.2001–11.2006

Name and address of employer: Jet Infosystems⁶. B. Novodmitrovskaya, 14/1, 127015 Moscow,

Russia

Positions held: Head of Software development group, System Architect

Type of business: System Integration Main activities and responsibilities:

- Head of development group (9 people);
- Lead of development projects;
- Architect and development of custom and off-the-shelf software (C/C++, Scheme, Lisp, Java);
- Negotiation with customers
- Present solutions for customers;

 $^{^3}$ http://www.mcafee.com

⁴http://www.mcafee.com

⁵http://www.mcafee.com

⁶http://www.jetinfo.com

- Participation in marketing activity;
- Infrastructure architect (data & process integration projects, network projects, mail projects).
- Performed Projects:
 - * Mailboss (aka SMAP "Dozor-Jet") mail filtering and archiving software (architect and developer, leader of development process); http://www.jetinfosecurity.com;
 - * **Webboss** (aka SKVT "Dozor-Jet") web filtering software (architect and develop software, lead the development process); http://www.jetinfosecurity.com;
 - * **BeepayXP** payment processing software for the Vimpelkom large Russian Mobile Company (Data architect, server infrastructure architect, project coordinator);
 - * File-NG data type detection library;
 - * KC IAS lead architect in data and process integration pilot project (on the base of Sun Java CAPS) for a Russian Central bank. Business process analysis, Project architecture design, product selection.
 - * Content-type detection add-on for the Cerberus software (Mail filtering software for Lotus Notes);
 - * Custom Web Portals for the government departments (architect solutions, project coordinator);
 - * Mail projects for different clients (Infrastructure architect, project coordinator);
 - * Custom software solutions (Development in C/C++, Java, Scheme).
- Teacher at Tomsk Polytechnic University

Dates (from-to): 09.1998-08.2001

Name and address of employer: Tomsk Polytechnic University, Lenina Str, 30, Tomsk, Russia

Positions held: Assistant lecturer at Technical Physic's department (Teacher)

Type of business: Education

Main activities and responsibilities:

- Provide trainings for students in branch of thermodynamic, molecular physic, computer modeling of physical processes;
- Administration of faculty network (mix of Unix and Windows servers) 1500 users;
- Development of Intranet applications.
- **Developer** at *E-Compare Corp.*

Dates (from-to): 10.2000 - 4.2001

Name and address of employer: E-Compare Corp, USA

Positions held: Developer (remote work)
Type of business: Software Development
Main activities and responsibilities:

- Writing modules for search engine (Perl, Oracle);
- Web programming (HTML, JavaScript).

Education and trainings

• Engineer at Tomsk Polytechnic University, Russia

Dates (from-to): 1991–1997

 ${\bf Title\ of\ qualification\ awarded:\ Physic\ (Engineer)}$

Name and type of organisation: Physical-technical department of Tomsk Polytechnic University

Principal subjects: Physic and Chemistry of Plasma, Mathematics

Level in national classification: Higher education diploma

• MBA at Magdeburg University, Germany

Dates (from-to): 2003–2005

Title of qualification awarded: Master of Business Administration

Name and type of organisation: Deutsches MBA Program, Magdeburg University, Germany

Principal subjects: General management, Finance, Marketing

• Online courses:

An Introduction to Artificial Intelligence⁷ (Stanford). Score: 89%

Machine Learning⁸ (Stanford). Score: 100%

Natural Language Processing⁹ (Stanford/Coursera). Score: 93%

Heterogeneous Parallel Programming¹⁰ (University of Illinois at Urbana-Champaign/Coursera). Score: 100% with distinction

Computing for Data Analysis¹¹ (Johns Hopkins Bloomberg School of Public Health/Coursera). Score: 100% with distinction

Introduction to Data Science¹² (University of Washington/Coursera). Score: 90.1% with distinction

Model Thinking¹³ (University of Michigan/Coursera). Score: 95% with distinction

Data Mining with Weka¹⁴ (University of Waikato). Score: 100%

Functional Programming Principles in Scala¹⁵ (École Polytechnique Fédérale de Lausanne/Coursera):

Score: 100% with distinction

Cluster Analysis in Data Mining¹⁷ (University of Illinois at Urbana-Champaign/Coursera)

Mining Massive Datasets¹⁸ (Stanford/Coursera)

CS100.1x Introduction to Big Data with Apache Spark¹⁹ (Berkley/edX). Score: 100%

CS190.1x Scalable Machine Learning²⁰ (Berkley/edX). Score: 100%

UT.5.02x LAFF: Linear Algebra - Foundations to Frontiers²¹ (University of Texas/edX)

Introduction to Natural Language Processing²² (University of Michigan). Score: 95.2%

Technical skills and competences

Programming languages and software development skills

- C and C++ more than 15 years (mostly in Unix Linux, Sun Solaris, HP-UX, FreeBSD)
- Java 10 years (commercial & personal projects)
- Clojure 7 years (commercial & personal projects)
- Scheme and Common Lisp 8 years (commercial & personal projects)
- Erlang 2 year (personal projects, currently inactive)
- Haskell 1 year (personal projects, currently inactive)
- Perl 5 years (currently inactive)
- OCaml and F# 2 years (currently inactive)
- Go 1 year (currently inactive)
- SQL 7 years (Oracle and PostgreSQL)
- UML modeling in complex projects
- Shell scripting languages bash, sh, zsh, ...

⁷http://www.ai-class.com/

 $^{^8} https://www.coursera.org/course/ml$

⁹https://www.coursera.org/course/nlp/

¹⁰https://www.coursera.org/course/hetero

 $^{^{11} \}rm https://www.coursera.org/course/compdata$

 $^{^{12} \}rm https://www.coursera.org/course/datasci$

 $^{^{13} {\}rm https://www.coursera.org/course/modelthinking}$

 $^{^{14} \}rm https://weka.waikato.ac.nz/datamining with weka/$

 $^{^{15} \}rm https://www.coursera.org/course/progfun$

 $^{^{16} \}rm https://www.coursera.org/course/pattern discovery$

 $^{^{17} \}rm https://www.coursera.org/course/clusteranalysis$

¹⁸https://www.coursera.org/course/mmds

¹⁹https://courses.edx.org/courses/BerkeleyX/CS100.1x/1T2015/info

 $^{^{20}} https://courses.edx.org/courses/BerkeleyX/CS190.1x/1T2015/info$

²¹https://courses.edx.org/courses/UTAustinX/UT.5.02x/1T2015/info

 $^{^{22} \}rm https://www.coursera.org/account/accomplishments/records/sXxgywdRUTjpRAC7$

Other computer-related skills

- Administration of UNIX-like OSes Linux (since 1996), Sun Solaris (since 2000–2006), HP-UX (2001–2006), FreeBSD (2000–2006);
- Administration of Windows OSes NT4, 2000, XP, ...;
- Administration of relational databases (Oracle and PostgreSQL);
- NoSQL databases: Apache HBase, Apache Solr, Elasticsearch, CouchDB.

Open Source projects

I'm contributing to different open source code projects including:

- Clojure-related: Incanter, Leiningen, swank-clojure, Clojure, clojure-hadoop, labrepl;
- Emacs-related: el-get, magit, Muse, GNU Emacs, CEDET;
- ALTLinux—Linux distribution, package maintainer (2001–2004)
- Catdoc—Open-source converter for MS Office files, development of PPT & XLS converters;
- Dansguardian web-filtering software;
- openfwtk—application level firewall;
- Russian documentation for Linux author of different articles about Linux.

Information about other open source projects you can find on github²³ and ohloh²⁴.

Certification

- Authorised "ALTLinux specialist", certificate number 0x000C;
- Brainbench certification (Brainbench ID 5075245²⁵):
 - Master C++
 - Master C++ Fundamentals
 - Master Unix Programming
 - Master Linux Programming
 - Master Network Authentication
 - Master Unix Administration (General)
 - Master Linux Administration (General)
 - Master Linux Administration (Redhat)
 - C Programmer

Personal skills and competences

Languages

- Russian: Mother tongue
- English: Good reading, writing & verbal skills
- German: Good reading, basic writing and verbal skills

 $^{^{23} \}rm http://github.com/alexott$

²⁴https://www.ohloh.net/accounts/alexott

²⁵http://www.brainbench.com/xml/bb/transcript/public/viewtranscript.xml?pid=5075245

Social and organizational skills and competences

- Ability to work in multinational teams, work with foreign customers
- Ability to work in teams (also geographically distributed) and alone
- Experience in managing of software development teams, coordinating different departments to make projects.
- Participation in Open Source projects

Other personal info

- Driving license: present
- Artistic skills and competences:
 - Author of different articles, in physics and computer-related branches (functional programming, Emacs, programming);
 - Co-author of Russian translation of "GNU Emacs manual", "Practical Common Lisp", "Types and programming languages", and some other.