

# Alexey Ott's Curriculum Vitae

## Personal Information

- **Name:** Alexey (Alex) Ott
- **Address:** Paderborn, Germany
- **Phone:** +4917650439409 (mobile)
- **E-mail:** [alexott@gmail.com](mailto:alexott@gmail.com)<sup>1</sup> (please use it s primary contact)
- **Citizenship:** German, Russian
- **Date of Birth:** 1974
- **Personal site:** <http://alexott.net/en/>
- **LinkedIn profile:** <http://www.linkedin.com/in/alexott>

## Summary

- Serious experience in products development for Data Leak Prevention & Content Filtering
- Leader of software development projects (commercial & open-source)
- Software architect and developer using many different programming languages
- Business vision of problems and requirements

## Work Experience

- **Software Architect** at Intel Security. (subsidiary of Intel Corporation)\*

**Dates (from-to):** 07.2014-now

**Name and address of employer:** Intel Security<sup>2</sup>, 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 (HBase, Solr, 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;
- Design & implementation of the log processing system (Kafka, Spark, Elasticsearch).

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

**Dates (from-to):** 03.2013–06.2014

**Name and address of employer:** McAfee, Inc<sup>3</sup>. 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.

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<sup>1</sup><mailto:alexott@gmail.com>

<sup>2</sup><http://intelsecurity.com>

<sup>3</sup><http://www.mcafee.com>

- **Principal Software Engineer** at *McAfee, Inc. (subsidiary of Intel Corporation)*  
**Dates (from-to):** 04.2011–02.2013  
**Name and address of employer:** McAfee, Inc<sup>4</sup>. 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–now  
**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, Inc<sup>5</sup>. 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** at *Jet Infosystems*  
**Dates (from-to):** 10.2001–11.2006  
**Name and address of employer:** Jet Infosystems<sup>6</sup>. B. Novodmitrovskaya, 14/1, 127015 Moscow, Russia  
**Positions held:** Head of Software development group, Chief 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;
  - 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;

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<sup>4</sup><http://www.mcafee.com>

<sup>5</sup><http://www.mcafee.com>

<sup>6</sup><http://www.jetinfo.com>

- \* 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 Physics department (Teacher)  
**Type of business:** Education  
**Main activities and responsibilities:**
    - Provide trainings for students in branch of thermodynamic, molecular physics, 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  
**Title of qualification awarded:** Physics (Engineer)  
**Name and type of organisation:** Physical-technical department of Tomsk Polytechnic University  
**Principal subjects:** Physics 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 Intelligence**<sup>7</sup> (Stanford). Score: 89%
  - Machine Learning**<sup>8</sup> (Stanford). Score: 100%
  - Natural Language Processing**<sup>9</sup> (Stanford/Coursera). Score: 93%
  - Heterogeneous Parallel Programming**<sup>10</sup> (University of Illinois at Urbana-Champaign/Coursera). Score: 100% with distinction
  - Computing for Data Analysis**<sup>11</sup> (Johns Hopkins Bloomberg School of Public Health/Coursera). Score: 100% with distinction
  - Introduction to Data Science**<sup>12</sup> (University of Washington/Coursera). Score: 90.1% with distinction

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<sup>7</sup><http://www.ai-class.com/>

<sup>8</sup><https://www.coursera.org/course/ml>

<sup>9</sup><https://www.coursera.org/course/nlp/>

<sup>10</sup><https://www.coursera.org/course/hetero>

<sup>11</sup><https://www.coursera.org/course/compdata>

<sup>12</sup><https://www.coursera.org/course/datasci>

**Model Thinking**<sup>13</sup> (University of Michigan/Coursera). Score: 95% with distinction  
**Data Mining with Weka**<sup>14</sup> (University of Waikato). Score: 100%  
**Functional Programming Principles in Scala**<sup>15</sup> (École Polytechnique Fédérale de Lausanne/Coursera):  
 Score: 100% with distinction  
**Pattern Discovery in Data Mining**<sup>16</sup> (University of Illinois at Urbana-Champaign/Coursera)  
**Cluster Analysis in Data Mining**<sup>17</sup> (University of Illinois at Urbana-Champaign/Coursera)  
**Mining Massive Datasets**<sup>18</sup> (Stanford/Coursera)  
**CS100.1x Introduction to Big Data with Apache Spark**<sup>19</sup> (Berkley/edX)  
**CS190.1x Scalable Machine Learning**<sup>20</sup> (Berkley/edX)  
**UT.5.02x LAFF: Linear Algebra - Foundations to Frontiers**<sup>21</sup> (University of Texas/edX)

## Technical skills and competences

### Programming languages and software development skills

- C and C++ – more than 10 years (mostly in Unix – Linux, Sun Solaris, HP-UX, FreeBSD)
- Scheme and Common Lisp – 8 years (commercial & personal projects)
- Clojure - 4 years (commercial & personal projects)
- Erlang - 1,5 year (personal projects)
- Haskell - 1 year (personal projects)
- Java (including J2EE) – 5 years (currently inactive)
- Perl – 5 years (currently inactive)
- OCaml and F# – 3 years (currently inactive)
- Prolog - 2 years (currently inactive)
- SQL – 7 years (Oracle and PostgreSQL)
- UML modeling in complex projects
- x86 Assembler – 5 years (currently inactive)
- Hadoop and corresponding topics - 2 years
- Lucene - 2 years (via Clojure)

### Other computer-related skills

- Administration of UNIX-like OS – Linux (since 1996), Sun Solaris (since 2000), HP-UX (since 2001), FreeBSD (since 2000)
- Administration of Windows OSES – NT4, 2000, XP
- Administration of relational databases (Oracle and PostgreSQL)

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<sup>13</sup><https://www.coursera.org/course/modelthinking>

<sup>14</sup><https://weka.waikato.ac.nz/dataminingwithweka/>

<sup>15</sup><https://www.coursera.org/course/progfun>

<sup>16</sup><https://www.coursera.org/course/patterndiscovery>

<sup>17</sup><https://www.coursera.org/course/clusteranalysis>

<sup>18</sup><https://www.coursera.org/course/mmds>

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

<sup>20</sup><https://courses.edx.org/courses/BerkeleyX/CS190.1x/1T2015/info>

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

## Open Source projects

I'm participating in different open source code projects including:

- Clojure-related: Incanter, Leiningen, swank-clojure, Clojure, clojure-hadoop, labrepl;
- Emacs-related: el-get, magit, Muse, GNU Emacs;
- 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 [github](#)<sup>22</sup> and [ohloh](#)<sup>23</sup>.

## Certification

- Authorised “ALTLinux specialist”, certificate number 0x000C;
- Brainbench certification ([Brainbench ID 5075245](#)<sup>24</sup>):
  - 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

### Social and organizational skills and competences

- Ability to working in multinational commands, working with foreign customers
- Ability to work in teams and alone
- Experience in managing of software development teams, coordinating different departments to make projects.
- Participation in Open Source projects

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<sup>22</sup><http://github.com/alexott>

<sup>23</sup><https://www.ohloh.net/accounts/alexott>

<sup>24</sup><http://www.brainbench.com/xml/bb/transcript/public/viewtranscript.xml?pid=5075245>

## Other personal info

- **Driving license:** present
- **Artistic skills and competences:**
  - Author of different articles, in physic 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.