

Kuzmenko Aleksei Nikolaevich

03/28/1990

Research Software Engineer

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Current location: Saint-Petersburg, Russia

EXPERIENCE

09/2017- current

Digital Security – Software Engineering Department

Saint-Petersburg, Russia, <https://dsec.ru/>

Research Software Engineer, Software Engineering Manager, Consultant

- software engineering management(project and performance management, communication(up, across, down), recruitment)
- development and operations(CI Jenkins, Artifactory, Harbor, Gitlab, Youtrack)
- develop test suite framework for testing binary analysis tool(smoke, regressions, integrations and etc)

Achievements and Projects:

- coordinated work flow among teams
- initiated a comprehensive issue tracking process including management process using Kanban methodology
- initiated a process of creating a test system

10/2015-08/2017

Digital Security – Research & Development Laboratory of Promising Technologies

Saint-Petersburg, Russia, <https://dsec.ru/>

Tech Lead, R&D Engineer, Information Security Specialist

- lead the team of 5 engineers(Java, C#, Python, C\C++\ObjC)
- develop code instrumentation and transformation tools for Python, Java, C++(LLVM\Clang)
- investigate compiler internals, code transformation researching
- develop MVP of web interface on Angular2 for managing server

Achievements and Projects:

- successfully presented product, including research results, to the client
- code transformation effectiveness measuring via code metrics

04/2014 – 10/2015

ERPScan Checkcode Team

Saint Petersburg, Russia, <https://erpscan.com/>

Software Engineer, Static Analysis Engineer

- source code analyzing: ABAP, JavaScript(with sapui5 framework), Java, PeopleCode
- develop code analysis techniques (i.e. catching language statements for identifying locations of complex statements)
- develop support tools for analysis

Achievements and Projects:

- created converter from BNF in XML into ANTLRv4 grammar
- improved grammars, also improved old and created new analysis checks

06/2013 — 04/2014

OAO Surgutneftegas, SurgutASUNeft

Surgut, Russia, <https://www.surgutneftegas.ru/en/>

Software Engineer

- develop reports for sap r\3 system : data extractors and financial reports (probation period – 1.5 month)
- develop applications for SAP HANA: native JavaScript and SAPUI5 JS framework - front-end and server-side using XSJS (Server-side JavaScript of SAP HANA)
- investigate SAP HANA capabilities and language possibilities for implementing various types of systems

Achievements and Projects:

- data extractors for transferring data between sap r/3 and sap BW systems - reducing a time for processing per request
- project MVP based on SAP HANA XSJS for controlling energy consumption

09/2012 — 06/2013

OAo Surgutneftegas, Road Department Vitim DRSU

Talakan-Surgut, Russia, <https://www.surgutneftegas.ru/en/>

System Engineer of Automated Control Systems

- system administration(Windows Server 2003 Active Directory) (more than 100 units - Windows based)
 - consult for SAP R/3 system
- Achievements and Projects:
- develop IP calculator on JavaScript for internal usage(calculating broadcast, network, hosts range, wildcard mask, subnets)

02/2012 —03/2012

Federal Grid Company of Unified Energy System (JSC FGC UES) (Western Syberia)

Surgut, Russia, <http://www.fsk-ees.ru/eng/>

Intern Engineer of Automated Control Systems Department

- information systems support and maintenance
- network management with a lead engineer
- working with data leak prevention systems from internal threats

EDUCATION

Tomsk State University of Control Systems and Radioelectronics

Department Of Complex Information Security, Information Security of Computer Systems

<https://tusun.ru/en> Russia, Tomsk 09/2007-06/2012

MAJOR UNIVERSITY PROJECTS

- developed a network packet analyzer using pcap library on C++ Windows
- network security research in a team(encrypted and unencrypted protocols, honey-pots)
- a self-protection system for web-based project based on decision trees and honey-pots (research)

COMPETITIONS

- second award of Regional Conference “Step in the Future” – the project about computer security and cryptography (2005-2006), basic encryption algorithm based on coding tables
- took a second place in the school competition of Tomsk State University of Computer Systems and Radioelectronics between schools (2006)

OTHER

Activities:

- member of research groups at University: the honeypots and network security, ctf server
- Defcon Russia conference speaker (<http://www.slideshare.net/DefconRussia/sa-50461657>) including RISSPA(<http://www.slideshare.net/risspa/ss-61555377>, <https://it.mail.ru/video/570/>): Source Code Analysis and Security Software Engineering

Interests:

- software engineering, program analysis, programming languages, compilers, AI, Fin-tech, security, product development