Ali Demiröz

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Info

Born December 5th, 1985 at Antalya Citizenship Turkish

(Turkey)

Blog http://demirozali.com Driving E License

Objective

Working in a challenging environment that I can contribute with the best of technical and personal abilities and while doing that, improving myself to overcome further challenges.

Summary of Qualifications

- Possess expertise in C++
- Addict to profiling, benchmarking, finding out hotspots and improving implementation cycle.
- Solid experience in requirement analysis, design, implementation, testing and documentation
- Known for problem solving skills those are gained with the help of desire to learn every part of the project, that I work on, top to bottom.
- Able to reverse engineer and comprehend any kind of process no matter which environment it lies in.
- Good understanding of security concepts including: authentication, authorization, access control, integrity, confidentiality, non-repudiation, auditing, single sign-on, identity management, key management and symmetric/asymmetric cryptography

Technical Skills

Concepts Multithreading, Memory&Performance Profiling, Concurrent Programming, Reverse Engineering, OOA/OOD(UML, Design Patterns, Refactoring), Test Driven Development, Obfuscation, Socket Programming, Mobile Programming

Languages C++, Python, JAVA

APIs& Boost C++ Libraries, Intel TBB, Hardware Transactional Memory, SIMD, NoseTests, Frameworks GoogleTests, Google Benchmark

71 4

Platforms Linux, MacOSX, Windows, Android DB HANA VORA, SAP Sybase IQ, PostgreSQL, SQLite

Tools CLion, VS2013, IntelliJ IDEA, PyCharm, Git, Linux Perf, Intel VTune, Jenkins, Maven, Wireshark, WinDbg, OllyDbg, IDA(Interractive Disassembler)

Professional Experience

2014-Present Senior Software Developer, SAP, Istanbul, Turkey.

As the market leader in enterprise application software, SAP is at the center of today's business and technology revolution. SAP helps you streamline your processes, giving you the ability to use live data to predict customer trends – live and in the moment. Across your entire business. When you run live, you run simple with SAP.

HANA VORA - Distributed In Memory DBMS (C++)

- o Took full responsibility of improving data load into in-memory database engine and its indexing performance.
- Implemented several compression techniques for string column dictionaries in in-memory database engine.
- Currently leading a team to introduce disk based solution to this distributed environment by utilizing the existing SAP products. In the end, it is aimed to run memory and disk engines together to make different scenarios possible such as hot/cold data separation, incremental indexing etc.

2010-2014 Software Developer & Researcher, TUBITAK BILGEM UEKAE, Kocaeli, Turkey.

The National Research Institute of Electronics and Cryptology (UEKAE), an affiliate of the Scientific and Technological Research Council of Turkey (TUBITAK), produces and applies scientific and technological solutions in the areas of information security, communications and advanced electronics.

Military Message Handling System (MMHS) (Java)

- Developed cross-cutting security modules of the X.500 Directory, LDAP, X.400 Messaging System, SMTP, IMAP, GUI, Management Interfaces and all other MMHS related components
- o Implemented required security concepts of the MMHS like simple & strong authentication (PKI), authorization (PMI), access control for the directory, messages and all system resources, signing & encrypting operations, security policy enforcement, audition and alarm system, TLS/SSL, SASL, message security (proof and non-repudiation services, counter-signature etc.), transporting S/MIME objects in X.400, securing X.400 content with S/MIME etc.
- Also worked closely with smartcard manufacturers to identify and report anomalies on their PKCS#11 API implementations.

2009-2010 Software Developer & System Engineer, Labris Networks, METU, Turkey. Labris produces network solutions like LBRUTM, LBRLOG DDoS Mitigator which provide firewall/VPN, web security, email security, lawful interception and availability protection.

Wireless Guest Authentication (WAUTH) (Python, Django, Bash Scripting)

- Developed authentication mechanism based on IPTables which allows admistrator to limit and control their internet service on public networks such as university campus, hotel, cafe...
- Implemented admin and user sides individually with Django framework to provide options like multiple authentications and mobile-payment

Labris UTM Web Security (Java, C++, Bash Scripting)

• Worked on implementing features and resolving bugs on services such as firewall, webfilter, antivirus... These modules are implemented by C++ and bash scripting on server side and JAVA on administration side.

Certification

o Offensive Security Certified Professional-2013

Trainings

- Developing Enterprise Applications with JavaEE, Murat Karakas, Eteration, Gebze 2013
- o Penetration Testing, Dr. Emin Islam Tatli, Daimler TSS, Gebze 2013
- Oconcurrent Programming, Talip Ozturk, Hazelcast, Gebze 2012
- o Test Driven Development, Cenk Civici, Prime Technology, Gebze 2011

Education

2005-2009 Bachelor's Degree in Computer Engineering, Dokuz Eylul University, Izmir, Turkey.

GPA: 3.11/4.0

Languages

Self-assessment European level CEFR (C2 maximum evaluation)

		Comprehension		Speaking		Writing
		Listening	Reading	Interaction	Production	
Turkish	Native Language	C2	C2	C2	C2	C2
English	Advanced	C1	C2	C1	C1	C1

Interests and Hobbies

- I love doing extreme-sports such as snowboarding and scubadiving. I am holder of PADI-Open Water Diver certificate.
- I enjoy reading fantasy novels.

Extra

Here listed some of my projects from my github(github.com/akdeniz)

- o google-play-crawler: This project uses Google Android protobuf-wrapped mobile api to list&download&retrieve information from Google Play. This API is not a publicy documented so all protobuf structures are generated by reverse engineering google mobile applications. This project has also a feature to simulate Google's GCM protocol and act as a receiver client for web-initiated download request.
 - I developed this project to help my friend with his PhD project about android application permissions.
- o adaptiveradixtree: Adaptive Radix Tree implementation to efficiently store character sequences along with their indexes.
- o mitmsocks4j: Standalone SOCKS proxy with the ability to dump traffic.