



MATEUSZ KLATT

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Executive Director at Goldman Sachs

October 2022 — ...

Extending open source FINOS Legend platform. Mainly working on the engine part utilizing different databases like Snowflake, Spanner, BigQuery, etc. Working with gitlab, docker, podman, PyCharm, Visual Studio, IntelliJ IDEA, terraform, AWS Lambda, etc.

Soldier at Polish Armed Forces

February 2022 — August 2023

Cyber Security Detachment. CompTIA Security+ SY0-601 certification.

— Relocation from Ireland to Poland in January 2022 —

Student at University College Dublin

July 2021 — November 2021, May 2022 — September 2022

- Professional Diploma in Fintech
- Certificate in Data Analytics for Finance
- Professional Diploma in Cybersecurity

Software Engineer at Nellie Analytics Limited

October 2018 — October 2021

Geo-political and sports analytics.

Consultant at Mastercard

April 2018 — October 2018

Blockchain - Research and Development. Bootstrapping QA (CI) practices in R&D department. Testing functional (cryptography) and performance quality of prototype erlang based blockchain solution. Creating Docker images (acting as build engineer) and deploying them in own (root access) Swarm. Adding new VMs to Swarm if required. Evaluating cost to value ratio of external teams and vendors. Proposing reimplementing software in Netty based Java solution. Wrote reference implementation of consensus node able to speak to Erlang nodes, and before that wrote MA-SSL transparent proxy injectable between Erlang nodes to evaluate difference between real protobuf based protocol implementation against original design (reverse engineering as need to have temporary solution of mix of Java and Erlang nodes). Created PKI infrastructure (with XCA, KeyStore Explorer, openssl) including initial Proof-of-authority Blockchain Root CA, certificates chain, and nodes certificates for mutual authentication TLS proposes. Migrated PKI from RSA to EC based (to use the same keys on chain as in in TLS). As DevOp tasks creation of docker compose and Java YAML Spring files.

Software Test Engineer at Susquehanna International Group

October 2013 — April 2018

Maintain written in Python (pydotnet module) extensive Test Framework (utilizing Microsoft UI Automation, pywinauto, calls over ctypes and Plinvoke) – authored the project in 1st year of employment, and by it cut the release cycle from 2 months to 1 week. Writing test cases, coming up with usage scenarios, analyzing possible features collisions. Providing PowerShell scripts to Application Support to validate or modify production data. Providing native Python DevOp-like utilities to use by support or Quantitative Researchers. Extending functionality of written in C# Exchange Simulator (authored the tool, C#, utilizing company specific exchange protocol implementations on top of SuperSocket library). Writing tests modules (C#) to be injected (Autofac) into trading strategy for test proposes. Writing ad-hoc utilities (C#) – exchange protocols support for Fiddler, test Market Data, etc.

Quality Assurance Lead Consultant at Rakuten

February 2013 — August 2013

Refactoring and extending functionality of C# framework utilizing brower/mob/fiddlercore (+HAR) and selenium. Writing tests for WCF Data Services. Testing contracts of interfaces. Providing SQL test data for validating models functionality after HBM transformations – objects used in test cases as Golden Data Set. Writing Gherkin scenarios and C# steps.

Quality Assurance Consultant at Verizon Business

October 2012 — February 2013

Testing of Public Key Infrastructure of Cybertrust UniCERT solution, including Certificate Authority, Registration Authority, and other internal components. Verification of external interfaces (SCEP, OCSP). Writing test tools utilizing private X.509 Java libraries together with Netty, Bouncy Castle, and Sikuli GUI automation. Extensive exposure to knowledge of rare PKI and SSL aspects.

Senior Quality Assurance Engineer at Kobo

May 2012 — October 2012

Testing of different kind of builds on different devices and web browsers e-Reader software, and integration with payment/authentication gates. Overcoming limitations of transparent proxy of HTTPS connections (Java implementation of SNI aware handshake – high performance – Netty based). Providing verbose information to developers (rapid Agile).

Senior Quality Assurance Engineer at AOL

June 2011 — May 2012

Working with ADTECH Team, functional and performance testing of written in C++ AdServer backend solutions. Exposure to Erlang (extending Tsung), Java (extending Jenkins authentication and JMeter testing capabilities – mvn/git), and Perl (maintaining existing test suites). Automating deployment of snapshot builds to CentOS based own AOL internal cloud solution and execution of every-night performance tests.

Senior Software Test Engineer at NewBay Software

May 2010 — June 2011

Working in Scrum methodology aware environment (Agile software development). Planning QA process that is going to be executed, and implementing necessary tools (JMeter Samplers) in Java/IntelliJ IDEA. Working with a lot of different API's and project specific client libraries (also writing custom implementations at socket level for reference). Performance and stress testing – creating up to 100.000 concurrent TCP connections with encryption (TLS) from one test box (Xen 32bit VM) – achievable by JNI OpenSSL/epoll(), non-blocking IO and multithreading at Java level and usage of eth0:0 interface. Exposing race-conditions.

Tweaking company build integration system (custom Ant Tasks, FreeMaker). Experience with JIRA/Bamboo/Perforce, JBoss/Netty, Tomcat and Spring framework. Automating deployment of the Product and QA environment grid to Amazon Web Services.

Independent Contractor at Sun Microsystems

September 2008 — March 2009

Project specific implementations of Sun Java Platform, "Micro Edition" and "Standard Edition Embedded Client". Working close to the Java (JSR) Profiles: CDC, FP and PBP – from implementing (in C) abstract definitions of VM, by defining interactions with native hardware access libraries, up to modification of Java type files (bootclass libraries). Also writing SQAP and more complex documents - Test Plans, basic implementation of Test Cases. Working on Linux, SunOS (vim, subversion, NetBeans and other development tools).

Test Lead at O2

October 2007 — March 2008

Engineer on a group of O2 Projects - Enterprise Technology sector of the software IT market. QA of Business Intelligence Data Warehousing, supporting correction of logical errors in

Business Analytics and helping with finding out proper design of Procedural SQL in Oracle DB/ETL DataStage jobs by creating Test Cases for overall BI/DW projects data flow verification. Software refactorization under structured process methodology including VModel and elements of extreme programming (Agile type – cooperation with developers).

Software Test Engineer at Lionbridge Technologies

June 2005 — September 2007

Mostly in year 2007 I was working as Windows Mobile tester, and it was utilizing my programming skills (applications helping to gather data from device – Visual Studio/Windows Mobile SDK – memory dump and screenshot from Phone transferred over Bluetooth to Linux box), beside that I was also developing in-house software for H/R management proposes Google Rate Program - Application measuring work-force performance (wxWidgets, SQLite). From beginning of year 2007 I was testing program (made by CA) that was using DB2, Oracle 9/10 and Ingress databases under AIX, HP-UX and Solaris 9 OS'es (highly improved administration skills). First year of employment I was testing integration of Solaris 10 with cloud-based mainframe controller with virtualized hardware platforms (Egenera) – for clarity of work I was using repository software (subversion), I use to write shell scripts and programs in C in that project. I was also involved in project where I had to prepare environment for Antivirus Solutions.