
EXECUTIVE SUMMARY

A **results-focused software engineer** experienced in designing and developing robust, efficient, reusable, and reliable code in C++ and Python. Team player with a can-do attitude, proactive, enthusiastic and great attention to detail.

WORK HISTORY**MCAFEE** (FRM. Intel Security)

May 2016 – Present

*A cyber security company with 6,768 employees and \$2.5 billion in revenues***Senior Software Development Engineer**

- Designed and implemented low-latency, highly scalable & available, back-end RESTful services (C++, Python, AWS, Ansible, Kafka, Hbase, Boost, asynchronous).
- Implemented an advanced build system to compile and link components from various GitHub repos (CMake, Docker, bash).
- Implemented a QA framework that automates running of test-cases. (Python, Docker, bash).
- Implemented Unit and functional tests with high coverage goals. (gtest, gmock, Jenkins, boost.test)

VALEO

Nov 2014 – May 2016

*An automotive supplier company with 111,600 employees and \$186 billion in revenues***Software Architecture**

- Converted software requirements from car manufacturers and system architects into design. (UML, Design Patterns, Rational DOORS)
- Organized various design analysis including Critical Path Analysis to identify the Automotive Safety Integrity Level of the system. (ASIL, MISRA)
- Redesigned and reimplemented part of group's framework to reduce complexity and enhance maintainability. (C++, SOLID, Design Patterns)

ENERGIZE GLOBAL

Dec 2013 – Nov 2014

*A banking & financial software company***Senior Software Developer**

- Implemented cryptographic solutions (e.g. 3DES) for PoS terminals (C, asynchronous).
- Implemented functional tests (Python).
- Lead a small team of developers.

SYNOPSISYS

Oct 2011 – Jun 2014

*A "from Silicon to Software" company with 12,590 employees and \$3.121 billion in revenues***Senior Software Engineer**

- Implemented a data analyzing tool by using an internal framework (TCL, Python, C++, outlier detection, chip design)
- Automated functional tests by implementing a framework that validates user interactions with GUI as well as command line operations (TCL, Python, HTML, CSS, JS).

LTX-CREDECE

Apr 2011 – Oct 2011

An automatic test equipment vendor with 1,676 employees and \$341.9 M in revenues

- Helped to reimplement company's build system consisting of thousands of Makefiles.

INSTIGATE DESIGN

Sep 2008 – Apr 2011

*A heterogeneous parallel systems development company with ~62 employees.***Software Engineer**

- Implemented WODI trading algorithm, High-Dynamic-Range image processing algorithm, H264 encoder and decoder (and more) applications using GPGPU programming (C++, CUDA, OpenCL)
- (Achieved around 80x acceleration compared with reference C++ implementation)

RELEVANT PROJECTS

thetigran.com: Personal blog implemented as static website running on AWS. Dynamic functionality is (subscription and contact form) is implemented by AWS Lambda functions, DynamoDB, ApiGateway etc.

Instigate STL: Implementation of [Instigate STL](#) which is a version of C++ Standard Template Library modified by applying [Generic Programming](#) principles. (2008)

EDUCATION

Bachelor of Science (Computer Engineering). [National Polytechnic University of Armenia](#) (Yerevan, Armenia)

2002-2006

OTHER RELEVANT INFORMATION

Certifications: [AWS certified developer associate](#) (2018)