

# Hayk Harutyunyan

## Personal Data

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## Work Experience

Revenue Assurance Senior Specialist 2010 Aug - Present  
(K-Telecom CJSC (VIVACELL - MTS))

Revenue Assurance Specialist 2010 Apr - 2010 Aug  
(K-Telecom CJSC (VIVACELL - MTS))

- Developing new data analyses tools (for example, new SQL scripts, functions, procedures, etc.)
  - Comparing different data sources to ensure data consistency in the report
  - Investigating reasons of data inconsistency
  - Developing data analysis applications for automation of the process
  - Reporting
  - Wrote parser for binary file (the file size was more than 2,5 GB)
  - Wrote parser for XML file
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Software Engineer at "Hitegrity" LLC 2008 - 2009

- Created Packet Generation framework for ARP, PCAP, IPv4 and IPv6 protocols that provide universal interface to generate packets of different protocols and test environments
  - Developed cross-platform (Windows - Linux) library, partly lib implementation, system specific threads and threads synchronization (mutex, pipes)
  - Wrote technical documentations and tests
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## Trainings

Coding Bootcamp 2016 Dec  
Organized by Microsoft Innovation Center (6 week intensive internship) for BetConstruct

Windows phone application development 2012  
Organized by Microsoft Innovation Center and mLab ECA regional Mobile Applications Lab

C# training (Certificate of completion C# training I - II Levels) 2011  
Organized by Microsoft innovation Center Armenia, EIF, USAID

Special course of C/C++ 2008  
Organized by CQGI MA LTD

Special courses of Web Technologies in the fields of 2008  
JAVA, JavaScript, My SQL, HTML  
Organized by EIF, Sun Microsystems, USAID and Yerevan State University

## **Professional Affiliations**

<b>SEUA</b>	<b>2007-2009</b>
<ul style="list-style-type: none"><li>• Made a research and implementation of Steganographic algorithm about “Steganography in a Spectral Area of the Image”</li><li>• Participated in the Seventh International Conference on Computer Science and, Information Technologies</li></ul>	
<b>Laboratory at SEUA</b>	<b>2006-2008</b>
<ul style="list-style-type: none"><li>• Research and development of “Multi-agent Systems”</li><li>• Design and implementation of software tool for special file system of windows</li><li>• Implementation of user interface for “Multi-agent Systems” (in QT)</li></ul>	
<b>SEUA</b>	<b>2006-2007</b>
<ul style="list-style-type: none"><li>• Made a research and implementation of algorithms for Steganographic systems about “Hiding information in a bmp files by using special algorithms” (Scholastic Allowance in SEUA, Yerevan 2007)</li></ul>	

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## **Education**

<b>Master's Degree in Engineering (GPA 3.96)</b>	<b>2007 - 2009</b>
State Engineering University of Armenia (SEUA) Department of Computer Systems and Informatics	
<b>Bachelor's Degree in Engineering (Diploma with Honor)</b>	<b>2003 - 2007</b>
SEUA Department of Computer Systems and Informatics	
<b>School Leaving Certificate</b>	<b>2001 - 2003</b>
College of SEUA	

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## **Publication**

<b>The Steganography in Spectral Area of the Image</b>	<b>2009</b>
Seventh International Conference on Computer Science and Information Technologies 28 September - 2 October, 2009, Yerevan, Armenia	
By this work it was presented the hiding algorithm of the image in the spectral field with the help of Fast Fourier Transform (FFT).	
Link: <a href="https://csit.am/2009/proceedings/6PDC/4.pdf">https://csit.am/2009/proceedings/6PDC/4.pdf</a>	

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## **Skills**

### **Programming Languages:**

C#, C/C++

### **Databases:**

MS SQL Server.

### **Languages:**

Armenian	(native)
English	(fluent)
Russian	(fluent)