Izchak Baruch Goldshtein - CV

Email: goldshti@gmail.com

Education

- B.Sc. in Computer Science and Math (2007), Bar-Ilan University (as part of the IDF academic reserve program - ATUDA): **summa cum laude**
  - Average grade: **98.6**

- M.Sc. in Computer Science (with thesis, 2012), Bar-Ilan University (Done in parallel to army service): **summa cum laude**
  - Specialization field: Algorithms and Computability.
  - Thesis title: **"**On Approximating Edit Distance with Moves and MCSP"; Advisor: Prof. Moshe Lewenstein
  - Average grade: **98.1**; Thesis grade: **99**.

- Ph.D. in Computer Science (starting at Dec. 2013), Bar Ilan University
  - Research title:
    "Polynomial Lower Bounds on Algorithms and Data Structures"

Publications

- Quick Greedy Computation for Minimum Common String Partitions, LNCS 6661, 2011, pp. 273-284 (Covering the first part out of three of my thesis for MSc degree).
  - Presented in talks in the international conferences CPM 2011 (*Palermo, Italy; June 2011*), and Stringology 2011 (*Haifa, Israel; April 2011*).
- Quick greedy computation for minimum common string partition, Theoretical Computer Science, 2014, V. 542, pp. 98-107.

Academic Awards

- The Bar Ilan university president's award for outstanding opening achievements.
- The Bar Ilan university **rector's** prize for academic year **2005**, as the leading student of the department.
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- The **Wolf Foundation award for excellent BSc students**
- Excellence scholarship for MSc in Computer Science
- The Bar Ilan university president's Doctoral Fellowship of Excellence (2014)

Employment

Military Service

2007-2013 – During my military service as an academic officer (ATUDAI) in the IDF, I served in a variety of positions in the computer science field as part of an **elite technology unit**. At the beginning I served as a programmer in an R&D team and afterwards as a **team leader** leading a team of programmers, and as a **projects officer** responsible for the overall leadership of a number of projects.

In these positions I gained a lot of practical knowledge in many areas, including: information security and cryptography, security components in the cyberspace, security solutions in a variety of application areas (SOA, video, monitor & control etc.), communication and operating systems, advanced programming in different languages (especially: C, C++, C# and Java). Beyond this practical experience I have gathered much research experience in those areas and have also been recognized as an IDF researcher.

Moreover, as part of my service I have taken many professional courses in Israel and abroad in the different areas of my work, which further widened my knowledge in those fields. A partial list includes: Win32 programming, Unix programming, JUNOS SDK technical training ,VOIP ,Windows KMDF device drivers, Systemic information security, Advanced C++, etc.

For my significant contributions in the various positions I held during my service, I have gained **two prizes for professional excellence from the unit commander (brigadier general rank) in the years 2010 and 2012**.

Academic Experience

2013-present – Teaching assistant in Algorithms 1 (89-220) and Complexity (89-225) courses at the Department of Computer Science, Bar-Ilan University.