

EDUCATION

- 2009–2012** Evening MBA, Rotman School of Management, University of Toronto
- 2003–2006** M.Sc. in Computer Science, University of Toronto
- 2000–2003** B.Sc. in Computer Engineering, Sharif University of Technology

AWARDS

- 2013** O'Reilly Open Source Award, for developing *HarfBuzz*
- 2005** Google Summer of Code grant, for developing *preload*
- 2000** Gold Medal, 12th International Olympiad in Informatics (IOI'2000), China
- 1999** Silver Medal, 11th International Olympiad in Informatics (IOI'99), Turkey

TECHNICAL SKILLS

Internationalization and Localization

World expert in the OpenType text rendering, Unicode standard, internationalization in software systems, bidirectional writing systems, Arabic and Indic writing systems, and Persian language.

Programming Languages

Wizard in C. Proficient in C++, Python, and bash. Familiar with Java and PHP.

Software Management

Expert in software development and maintenance using GNU autotools (autoconf, automake, libtool), git, SVN, CVS, and Bugzilla for Open Source libraries and applications.

Data Structures, Algorithms, and Graph Theory

Excellent theoretical and practical background, as demonstrated in IOI competitions.

Operating Systems and Environments

Expert in GNU/Linux and UNIX development and tools. A decade of GNOME, GNU, and Fedora involvement.

WORK EXPERIENCE

- 2010–now** **Google Canada. Staff Software Engineer.**
Responsibilities included maintaining and improving of international text rendering across Google's line of products, including ChromeOS, Chrome Linux, and Android. In this position I designed, developed, tested, and integrated two libraries, HarfBuzz and GLyphy, into Google's products to enable best-of-industry internationalized text rendering support.
- 2006–2010** **Red Hat Canada. Software Engineer.**
Responsibilities included improving, implementing new features, and maintaining packages in the Linux Desktop in Red Hat Enterprise Linux product and the Fedora project, including addressing customer problems, working with the Open Source community including various parts of the GNOME project, and handling internationalization (i18n) issues and coordinating with the i18n team.

2000–2003 **The FarsiWeb Project. Researcher and senior developer.**

The FarsiWeb Project is a research project working on internationalization and Persian localization of computer systems. As part of this project, I contributed patches to various software projects, including Mozilla, Qt, KDE, Glib, Pango, Gtk+, fontconfig, glibc, and the Unicode standard, and co-edited two Iranian national standards on adopting Unicode for Persian computing.

Summer–2003 **Sharif FarsiWeb, Inc. Co-founder.**

Sharif FarsiWeb, Inc. is a company specialized in distributing and supporting Sharif Linux, consulting technical and legal issues of Free/Open Source Software, and standardizing Persian language issues in information technology in Iran.

VOLUNTEER WORK EXPERIENCE

2007–now **GNOME Foundation. Software maintainer and developer. Volunteer.**

The GNOME Foundation is a non-profit organization that works to further the goal of the GNOME project: to create a computing platform for use by the general public that is completely free software. The GNOME Foundation Board of Directors administers the GNOME Foundation. I served as a director for the 2007..2009 calendar years. I also served as the president of the Foundation from January 2008 to June 2009.

2002–now **The Unicode Consortium.**

Contributing volunteer member of technical committee and bidirectional scripts subcommittee.

SOFTWARE DEVELOPMENT PROJECTS

Mostly performed as volunteer unpaid work or as part of my job at the time.

2011–now **GLyph Text Rasterizer. Designer and developer.**

GLyph is a revolutionary text rendering engine using OpenGL ES shader technology to render high-quality text on the screen in realtime at every frame.

2006–now **HarfBuzz Shaping Engine. Maintainer and lead developer.**

HarfBuzz is the only Free and Open Source OpenType text shaping engine used by Google Chrome, Android, Firefox, GNOME, KDE, and others.

2006–now **Cairo Graphics Library. Developer and Co-maintainer.**

Cairo is a 2D graphics library with support for multiple output devices. Responsibilities include bug fixing, making releases, general maintenance, and working with a community of contributors.

2005–now **Pango, Vte, Gucharmap, and Dasher. Developer and Co-maintainer.**

All are part of the GNOME project. Pango is a powerful modular Unicode text rendering engine. Vte is a terminal emulation widget. Gucharmap is a Unicode character map application. Dasher is an innovative predictive text input-method.

2005–2006 **preload. Developer and maintainer.**

preload is an adaptive readahead daemon for desktop systems. It predicts applications that users may run and prefetches them from the disk for faster startup times. It was awarded a Google grant, and developed for the Fedora Project. Base work for my Masters thesis.

2001–now **GNU FriBidi. Lead developer and maintainer.**

FriBidi is an Open Source implementation of The Unicode Bidirectional Algorithm (UAX#9), used in AbiWord word processor and Pango text rendering engine, as a requirement to support Arabic and Hebrew scripts. FriBidi is part of the GNU project, by appointment of Richard Stallman.

2000–now **RiRa Persian Digital Library. Lead developer and maintainer.**

RiRa is a huge database of Persian poetry available to public. Designed and implemented using PostgreSQL and PHP.

1998–now **FarsiT_EX Project. Developer and technical manager.**

FarsiT_EX is a bilingual (Persian, English) typesetting system based on L^AT_EX. Subject of my BSc. final project.