

Gary Roumanis

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What I do

I'm a passionate engineer with an eye for detail. I leverage my technical skills to create breakthrough products and experiences.

Experience

- Current **Microsoft Software Design Engineer, Bing Ads Data Acquisition**, Microsoft, Bellevue WA.
Develop complete designs that solve classes of problems, enabling groups of components, and satisfying business, customer, engineering and operational requirements. Key projects include a near real time, streaming, log processing service.
- 2012 - 2013 **Microsoft Program Manager, Bing Ads Business Intelligence**, Microsoft, Bellevue WA.
Defined and managed the scope of various projects, such as Product Listings and ads in Window's Search Charm. Specified requirements, conducted usability studies, triaged issues and assigned them to engineering teams.
- Summer 2012 **Research Assistant, pLRS**, McGill University, Montréal QC.
The lrslib library is a reverse search algorithm for vertex enumeration/convex hull problems. I adapted the synchronous lrslib library to take advantage of multiple processors/cores. Application was developed in C++ and made use of the free boost library. Source code available at cgm.cs.mcgill.ca/~avis/lrs.html
- Spring 2012 **Teacher Assistant, COMP 567 Discrete Optimizations**, McGill University, Montréal QC.
Formulation, solution and applications of integer programs. Branch and bound, cutting plane, and column generation algorithms. Combinatorial optimization. Stochastic Optimization. A large emphasis was placed on modeling. Duties included creating and grading assignments while providing students with general aid.
- Summer 2011 **Microsoft Program Manager Intern, AdCenter Delivery Engine**, Microsoft, Bellevue WA.
Wrote functional specifications for multiple projects including a prototype which allowed for the display of various coupon advertisements within the paid search workflow of Bing. Projects spanned multiple verticals of the Online Service Department, requiring collaboration with various subgroups. I received best intern project within the Online Service Department.
- Summer 2011 **Project Hawaii XAPFest 2011, 8tracks**, Microsoft, Redmond WA.
In two months of spare time I learned the Silverlight framework and C# to implement a fully featured Windows Phone 7 app. The app provides an internet streaming radio service, offering a simple way for people to share and discover music and playlists. The app also boasts Mango support, allowing for background audio playback. Received runner-up in the first annual Microsoft Intern App Competition. Available on the Windows Phone Marketplace. .
- Summer 2010 **NSERC Undergraduate Student Research, Phylo**, McGill University, Montréal QC.
Designed a framework for harnessing the computing power of humans to solve Multiple Sequence Alignment problems. Application front-end was developed in Flash Actionscript 3 while the back-end used Java and MySQL. Available at phylo.cs.mcgill.ca. Project received 1st place in the field of Mathematics and Computer Science at the 6th annual McGill University Undergraduate Research Conference.

Education

- 2008-2012 **B.Sc Joint Honours In Mathematics And Computer Science**, McGill University, Montréal QC.

Publications

- 2013 A portable parallel implementation of the lrs vertex enumeration code.
Conference on Combinatorial Optimization and Applications: <http://www.cocoa2013.org/>
- 2012 Phylo: A Citizen Science Approach for Improving Multiple Sequence Alignment.
PLoS ONE: <http://dx.doi.org/10.1371/journal.pone.0031362>

Toolbox

- Language: C# / Silverlight, Java, C, C++, Javascript, HTML/CSS, L^AT_EX, Actionscript 3, MySQL, Objective-C, Python, Lua
- Application: Visual Studio, Powershell, Eclipse, Xcode, Flash CS5
- OS: Windows, Ubuntu, Mac OS X

References

Available upon request.