

Alexander Safatli *July 13, 1990*

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Experience

Dalhousie University

HALIFAX, CANADA

Teaching Assistant

2012 – 2015

- OPERATING SYSTEMS – Winter 2015. Marked software assignments written in C.
- PRINCIPLES OF PROGRAMMING LANGUAGES – Summer 2014. Marked software assignments written in Scheme and Prolog.
- CONCEPTS IN COMPUTING, BIOINFORMATICS – various terms 2012-2014. Marked written and programming assignments covering a breadth of topics in computer science and bioinformatics.
- COMM. SKILLS: ORAL/Written – various terms 2012-2013. Marked, help teach oral presentations and common business document writing.

Research Assistant & Software Developer, Blouin Lab

2012 – 2014

Took major part in writing Python libraries for geometric morphometric analysis of 2D and 3D biological structures, for molecular dynamics, for protein homology modelling, and for the parsing of essential file formats. These software libraries are used regularly by other graduate students in the laboratory for their projects.

Please refer to my [LinkedIn profile](#) for further experience and any relevant recommendations.

Education

Dalhousie University

HALIFAX, CANADA

Master of Computer Science

2014 – 2015

- Education in Adv. Data Structures, Algorithms, Heuristics, and Natural Language Processing.
 - Published and currently maintain a Python software framework for combinatorial space analysis.
- Supervised by* Assoc. Prof. [Christian Blouin](#). *Extracurricular*. Computer Science Graduate Society, Executive Secretary for later term of 2014.

Bachelor of Computer Science with Distinction • GPA 3.8 (Major: 4.0) • Dean's List 2008 – 2013

- Thorough breadth of computer science fundamentals without specialization.
- Further focus on mathematics (geometry, cryptography, linear algebra) alongside chemistry.
- Completed individual and collaborative software projects in Java incl. a geo-location mobile game.

Awards. Undergraduate Student Research Award from NSERC for summer internships in 2009, 2012, and 2013. *Extracurricular*. Computer Science Society, Dalhousie University, Executive Secretary as of 2012-2013.

Skills

Technical Knowledge Software design and implementation, with(in) a team. Technical/scientific writing and use of the \LaTeX typesetting engine. Adv. experience with Python, Java, C, Objective-C, and Perl. Elementary to intermediate knowledge with C++, C# (.NET framework), Go, Scala, Lua, Prolog, Haskell, Scheme, Matlab, and R. Knowledge of database technologies: MySQL, SQLite, NoSQL. Knowledge of web technologies: HTML+CSS, XML, REST, JSON, JavaScript (jQuery, D3).

Natural Languages English (*mother tongue*), Arabic (*limited working proficiency*), and French (*elementary proficiency*).

Interests

Non-exhaustive and in alphabetical order: Art, cryptography, gaming, guitar, music (collecting, recording), open source, philosophy, reading, typography.