

BRYAN ST. AMOUR

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SKILLS

- Programming languages
 - Expert knowledge: C++, C
 - Working knowledge: Haskell, Delphi, Java, C#, Python, PHP, Javascript, various shell scripting languages (e.g. sh, sed, awk)
 - Some familiarity: Ocaml, Perl, Scheme, Ruby, Visual Basic
- Operating Systems: Linux, Windows. Some familiarity with FreeBSD.
- Software libraries: Boost, CPLEX, Poco, wxWidgets, JCL

PROFESSIONAL ACHIEVEMENTS

- Subject Matter Expert** 2018 – Present
- Standards Council of Canada
 - Member of the mirror committee to ISO/IEC JTC1/SC22/WG21, the C++ ISO committee.
 - Mostly participating in the Library Evolution Working Group (LEWG), the group responsible for evolving the C++ Standard Library.

EXPERIENCE

- Senior Software Engineer** 2019 – Present
- Tessonics Inc.
 - Lead the design and development of data acquisition and reporting infrastructure in C++17/20, involving database design, image processing, and calculating various statistics.
 - Developed various in-house libraries and utilities to ease the transition from Delphi to modern C++, including some std:: components.
 - Oversaw and mentored junior developers.

- Software Engineer** 2013 – 2019
- Tessonics Inc.
 - Worked directly with customers to identify and fix software issues, as well as providing general technical support and deployment assistance.
 - Desktop software development with Delphi, server side development with PHP, and some C++.
 - General in-house technical support and IT infrastructure management, including managing users via Active Directory and managing virtual machines.

- Research Assistant** 2008 – 2020
- University of Windsor

- Worked for various faculty members across multiple departments.
- Odette School of Business: implementing heuristic optimization algorithms for dynamic lot-size planning.
- School of Computer Science: Implementing and benchmarking various algorithms in Computational Geometry.
- School of Computer Science: Developing natural language query interfaces to various databases and web-based search tools. Use of pure functional programming in Haskell.
- School of Computer Science: Installing and managing servers and networking equipment for the Centre for Intelligent Distributed Information Systems (CIDIS). Overseeing student projects, developing reporting and visualization tools for Health Informatics researchers.
- Faculty of Engineering: Implementing bin packing algorithms for automotive cargo classification. Co-authored a journal publication based on the work.

Junior Software Developer (co-op)

Summer 2008

- Windsor Mold Group
- In-house PHP applications for monitoring and reporting plant-floor activities.
- Participated in the design and development of an application for tracking new projects.

Junior Software Developer

2005 – 2006

- Synergy Plus Solutions
- Custom application software with Visual Basic 6 and Crystal reports.

EDUCATION

PhD Computer Science (incomplete)

2015 – 2020

- University of Windsor

Msc Computer Science

2011 – 2014

- University of Windsor

BCS Honours Computer Science

2006 – 2010

- University of Windsor

INTERESTS

- Martial arts
- Reading
- Desktop publishing
- Sketching