

Benjamin Zaporzan

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<http://benzaporzan.me>

Objectives

I hope to continue gaining experience and being challenged by learning new technologies while working in software development.

Technical Skills

- C & C++ Programming
 - CUDA Programming
 - MPI / OpenMP Parallel Computing
- Python Scripting
- Lua Scripting
- Java & Clojure Programming
- Experienced with relational databases (TSQL, SQLite, PostgreSQL)
- Web Development (HTML/CSS/JS)
- Strong understanding of OOP principles and patterns
- Experienced Linux User
- Fan of Functional Programming

Education

2007 – 2009 Electrical Technologist Diploma
Lakehead University, Thunder Bay

- Obtained my diploma in May 2009

Research Publications

MatMRI and MathIFU: 'Software Toolboxes for real-time monitoring and control of MR-guided HIFU' B. Zaporzan, A. Waspe, T. Looi, C. Mougenot, A. Partanen, and S. Pichardo. Journal of Therapeutic Ultrasound (2013) 1:7 doi:10.1186/2050-5736-1-7

More Info: <http://www.proteus-mrighifu.net/mathifu.html>

BerryPI: 'A software for studying polarization of crystalline solids with WIEN2k density functional all-electron package' S.J. Ahmed, J. Kivinen, B. Zaporzan, L. Curiel, S. Pichardo, O. Rubel, Comp. Phys. Commun. (2012) doi:10.1016/j.cpc.2012.10.028

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Experience

Senior Software Developer at Oracle Canada

June 2015 – January 2017

- Backend Development for the Oracle Cloud Compute Services.
- Flex worker.

Software Developer at Aviation Intertec Services

February 2014 – June 2015

- ASP.NET Web Development with TSQL Database Development.
- Developed Android replacement for windows-based Flight Information Displays.
- Developed Android product to allow distributed messaging for automated scripting of flight displays.
- Developed a database version control plugin using Ironpython.

Software Developer at Qwantech

July 2013 – January 2014

- Completely reworked the compilation process.
- Developed dynamic web applications.
- Extended the server back end by wrapping low-level libraries.

Research Assistant at Thunder Bay Regional Research Institute

August 2009 – March 2013

- Programmed simulations in High Performance Computing and optimized existing code using OpenMP / MPI and OpenMP / GPGPU (CUDA) technologies.
- Automated administrative tasks using Python.
- Designed and Developed pre-clinical software for MRI+HIFU medical equipment.

Academic Projects

Flyer.js

- Broadcast Messaging Framework that works between frames, iframes, and external windows.
- Written in Clojurescript, with an exposed Javascript API.

Game Engine Development

- Designed and developed a game engine using the entity-component game design pattern.
- Developed using C++ and a seamless Lua binding.