

Jonathan Allen

Mathematics and Computer Programming

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Objective

Obtain a position which requires my knowledge of computer programming and advanced mathematics.

Education

2015 **North Dakota State University, Fargo, ND.**

Bachelor of Arts in Mathematics

- Elective credits in partial differential equations, combinatorics, graph theory and real analysis.
- Capstone project explored numerical semigroups, Markov bases, and extensions of the natural numbers.

2001-2005 **Minot State University, Minot, ND.**

Computer Science, Mathematics, Physics coursework

- Met programming proficiency requirements.
- Completed all data structures and algorithms coursework.
- Completed a concentration in physics.

Skills

Expertise \LaTeX , C/C++, sh, Lua, git

Experience D, Python, PHP, SQL, HTML, CSS, Visual Basic, javascript, vala

Technical Achievements

2013 **ArchNexus**, <http://www.github.com/archnexus>.

Created Linux distribution for tablet computers.

2008 – 2011 **yCurses**, <http://www.github.com/ylixir/ycurses>.

Created ncurses bindings for the D programming language.

2010 – 2011 **Yaed**, <http://www.github.com/ylixir/yaed>.

Cross platform text editor.

2015 **Lerna**, <http://www.github.com/ylixir/lerna>.

Web browser with lua scripting support.

Related Experience

2014 – Present **Teaching Assistant**, *North Dakota State University*, Fargo, ND.

Precalculus level algebra

- Prepare and present classroom material.
- Provide one on one assistance for my students.
- Grade homework, quizzes, exams, etc.

2002 – 2003 **Programmer**, *North Dakota Center for Persons with Disabilities*, Minot, ND.

Miscellaneous programming tasks

- Use C++ and Win32 to maintain and create accessibility software.
- Use Active Server Pages to create and maintain web applications.
- Use SQL to interface with database back ends.
- Design and maintain MSSQL and Oracle databases.