

MATTHEW STOCKINGER

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SELECTED EXPERIENCE

2013 – Present SAINT CLOUD AREA SCHOOL DISTRICT 742 Saint Cloud, MN
Teacher, Chemistry and Computer Science

- Created the school's computer science program by developing curriculum and launching 5 new computing courses, including 2 college-level computer science courses.
- Founded the Apollo Climbing Club.
- Taught complex subject matter including quantum mechanics, making it accessible to audiences with limited background.

2005 – 2009 ING DIRECT Saint Cloud, MN
Coach, Assistant Coach, Sales Associate

- Independently created the mortgage sales tracking and reporting system for the company's central time zone site.
- Created a mortgage customer analysis tool that helped raise me and my teammates to the top 5% of mortgage salespeople in the country.
- Piloted the *Loan Specialists*, a national mortgage customer service team that brought the company's satisfaction score from 81% to an all-time high of 95.7%.
- Improved efficiency of the loan servicing workflow, saving over \$250,000 annually.
- Promoted 3 times in 4 years.
- Awarded Assistant Coach of the Year.

2001 – 2003 UNIVERSITY OF BRITISH COLUMBIA Vancouver, Canada
Graduate Researcher, Computational Chemistry

- Mathematically modeled electrostatic and quantum interactions between microporous crystals (zeolites) and inclusion species using Fortran90.
- Wrote data pipelines in Python to process computational output from large-scale molecular simulations.

SELECTED PROJECTS

Catch Crabs

- Android mobile and web application designed and developed with HTML, CSS, JavaScript, and Cordova.
- Released to Android app store on 1/24/2023.
- Learned MVC architecture, animation, and cross-browser testing.

2020 Advent of Code

- A month-long, puzzle-based hackathon with over 190,000 participants.
- Completed all challenges to finish in the 93rd percentile.
- Learned complex data representation, execution time efficiency, functional programming, and dynamic programming.

eaglescoding.com

- Course homepage, written with HTML, responsive CSS, JavaScript, and PHP.
- Built a CMS in PHP to automatically update the site menus and carousels from uploads of new student content to the server.

EDUCATION

2009-2012

COLLEGE OF ST. SCHOLASTICA

Duluth, MN

Master of Science, Teaching

- Thesis: Course Rigor in High School Chemistry: Student Selection Practices and Implications for School Policy
- GPA 3.99/4.00

2001-2003

UNIVERSITY OF BRITISH COLUMBIA

Vancouver, Canada

Ph.D. level coursework

- 21 credits in computational chemistry and quantum mechanics
- Master's degree prerequisite waived
- GPA 3.57/3.60

1997-2001

SAINT JOHN'S UNIVERSITY

Collegeville, MN

Bachelor of Arts magna cum laude

- ACS Chemistry and Mathematics double-major
- Research: Modelled phase transitions in Langmuir films using simulations in C and Fortran90.
- Research: Constructed an ultra-high vacuum chamber with quadrupole mass spectrometer and Auger electron spectrometer for surface analysis of spinel crystals.
- GPA 3.82/4.00