CLARK ZINZOW

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EDUCATION

University of Wisconsin, Madison   *(expected) December 2015*
B.S. in Mathematics & Computer Science (in progress)
Member of the UW Math Club, the Hub, the UPL, and
Badger Entrepreneurs (formerly CEO)

PROJECTS

Ontological Project   A collection of mathematical structures and associated theorems, with a variety of interrelationships therein explored via category theory and implemented by morphism-representative data structures. (in progress)

Mathematics

Modified Nim Game research	Under the direction of Jordan Ellenberg. (in progress)
L_p **Tic-Tac-Toe research**	Under the direction of Jordan Ellenberg. (hiatus)
Planted Clique research	Under the direction of Jordan Ellenberg. (in progress)
Molecule reconstruction research	Under the direction of Jordan Ellenberg. (hiatus)
C*-algebras independent study	Under the direction of Gregory Shinault and James Sizemore. (Unaccredited, Summer/Fall 2013)
Operator Theory research	Looking for supervising professor. (Fall 2015)
Algebraic Topology research	Independent research. (in progress)

Computer Science

Quantum Artificial Intelligence research	Looking for supervising professor. (Fall 2015)
Quantum Domain Theory	Independent research. (in progress)
Smoothed Analysis of Algorithms	Independent research. (hiatus)
Categorical Databases research	Exploring schema mappings and data migration through category theory. (in progress)
Python Artificial Intelligence Sandbox	Implementation of various Artificial Intelligence algorithms and systems in Python. (in progress)
C++ Algorithms Library	Performance-centric library of frequently used algorithms implemented in C++. (in progress)

Professional

Flexy	Fitness-oriented social network, with native smartphone meet-up app. (hiatus)
MeetSnap	Contact information sharing app. (in progress)
The Vote Calculator	Ranked-Pairs voting web application constructed for the Madison City Council. (in progress)
ExploreWho	Company geared towards connecting students with their interests and professionals with their field of interest in the form of job shadowing experiences. Encourages peer-to-peer and student-to-professional connections through social network functionality and user-supplied content. (hiatus)

Note: For more information on these projects, visit my personal website: clarkzinzow.me

EXPERIENCE

100State/100Health
July 2014 - Present
Software Engineer/Web Developer
Madison, WI

· Worked on software/web development projects focused on health IT and the city of Madison.
· Learned how to use agile software development frameworks for managing product development.
· Gained valuable experience developing with JavaScript and many JavaScript frameworks.
· Created applications using modern technologies, such as the MEAN stack.
· Learned many modern software development practices from former Epic software engineers.

Benefit Concepts Inc.
January 2014 - Present
Technology Consultant/Web Developer
Whitewater, WI

· Provided consultation on HR/payroll software systems, cloud services, and computer security.
· Researched HR/payroll software for inclusion in company's offerings (in order to compete with Zenefits).
· Researched and set up viable cloud services solutions for the company.
· Set up and maintained company's encrypted e-mail system via Microsoft Azure RMS.
· Recently started working on a new website for the company. (in progress, not deployed)

Northwestern Mutual Life Insurance Company
December 2014 - May 2015
Technology Consultant/IT Support/Administrative Assistant
Milwaukee, WI

· Provided consultation on enterprise software, cloud services, and computer security for financial advisor.
· Provided general IT support.
· Compiled information packets for prospective clients and took care of document format conversions.
· Learned how to make software and cloud services compliant with strict company-defined security standards.

Division of Information Technology at UW-Madison
June 2014 - September 2014
Web Developer
Madison, WI

· Performed web development contract work for a variety of UW-Madison departments.
· Created websites, WordPress plugins and themes, and provided general website maintenance.
· Extensive experience developing using WAMP/MAMP stack and programming in PHP, JavaScript, jQuery, SQL, and a variety of PHP/JavaScript frameworks.
· Learned how to complete a project efficiently via test-driven development, source control, issue tracking, and good programming practices, and how to work within a team of developers.
· Learned the proper practices for developing, testing, deploying, and managing a large web site.

UW-Madison Office of Human Resources
June 2013 - August 2013
Payroll Services/Foreign National Processing
Madison, WI

· Processed missed payroll requests and foreign nationals' tax forms.
· Researched and dealt with complex non-resident alien tax compliance issues.
· Learned how to use several large software systems, namely Oracle PeopleSoft Human Capital Management, UW-Madison's Human Resource System and Arctic International's Glacier Non-Resident Alien Tax Compliance System.

EXTERNAL LINKS

Personal Website	clarkzinzow.me
GitHub	github.com/ClarkZinzow
LinkedIn	linkedin.com/in/clarkzinzow
HackerRank	hackerrank.com/ClarkZinzow