



# Dmitry Zamkov

*506 E White St #10  
Champaign IL, 61820*

757 (206) 9613  
zamkov2@illinois.edu  
<http://dzamkov.github.io/>

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## SUMMARY

Independent computer scientist; strong grasp of theory;  
experience developing applications in multiple paradigms

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## EXPERIENCE

*IT Intern, Venuity Healthcare*  
Newport News, VA — 2009 - Present

Independently developed software and customizations as  
needed by the company; currently maintaining discrepancy  
database, employee time-tracking software and document  
management system.

*CS Mentorship, College of William and Mary*  
Williamsburg, VA — 2012 - 2013

Worked with Qun Li, a professor of Computer Science, to create  
a cryptographic library in C. The library focuses on  
Zero-Knowledge proofs, allowing data verification without  
sacrificing the privacy of contents. It serves as a foundation for  
further development within William and Mary's Computer  
Science Department

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## EDUCATION

University of Illinois at  
Champaign-Urbana  
2013 - May 2016  
BS in Computer Science, GPA 4.0

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## SKILLS

C#, SQL, F#, Java, Haskell, Javascript,  
C++, C, Assembly (IL, PIC)  
Linux, Windows  
Git, Subversion  
Desktop/Web Applications  
2D/3D Visualizations in OpenGL

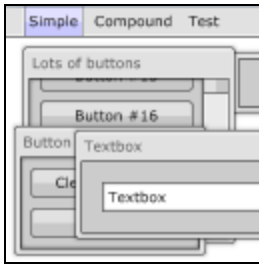
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## COURSEWORK

Computer Architecture  
Systems Programming  
User Interface Design  
Database Systems



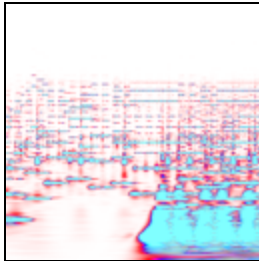
## PROJECTS



### *OpenTKGUI*

C#, OpenGL

A lightweight GUI toolkit built in OpenTK. This library can be used to add menus and windows to 3D games and applications



### *MD*

C#, F#, C++

Creates interactive spectrogram representations of sounds and music. Uses libavcodec to import a variety of file formats



### *Hailstone*

C#, OpenGL

A tool for visualizing the hailstone sequence (and other numeric sequences) as a 2D graph

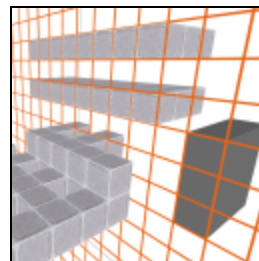
A screenshot of the 'PunchClock' application, which is an employee time tracker. It features a table with columns for time slots (3 AM, 6 AM, 9 AM, 12) and rows for employees (Bob, Steve, Mary, default). The table shows time entries for each employee, such as '3.00' and '4.00' for Bob, and '8.30' for Steve.

Entry	3 AM	6 AM	9 AM	12
Bob	3.00		4.00	
Steve		8.30		
Mary				
default				

### *PunchClock*

C#, WinForms, SQL

An employee time tracker with an interactive timeline display for the manager. This proprietary system is currently in use at Venuity Healthcare.



### *3Life*

HTML, JavaScript, WebGL

Web-based 3D "Voxel" editor and cellular automata simulator.



### *XChess*

C#, OpenGL

A 3D chess game that allows the user to play against an AI opponent.