

Mark A Emmons

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Education

University of Illinois at Chicago, Chicago, Illinois Aug 2012–Dec 2015

- Bachelor of Science in Computer Science—December 2015

· Minor in Bioengineering and a focus in Mathematics.

McHenry County College, Crystal Lake, Illinois Jun 2011–Aug 2012

- General education courses.

Selected Coursework

Linear Algebra, Abstract Algebra, Atomic and Molecular Nanotechnology, Introduction to Bioinformatics w/ Lab, Operating Systems Concepts and Design, Artificial Intelligence, Computer Networking, Secure Operating System Design and Implementation, Secure Computer Systems, Codes and Cryptography.

Selected Projects

Arch Linux Installation Script

- A custom bash script for automating the installation process and post installation build of an Arch Linux operating system.
- Full feature install in 5–10 minutes.

Sudoku Solver

- Java version of Donald Knuth's Dancing Links data structure for solving Sudoku puzzles.

Intel Emulators

- 8080 and 8086 CPU emulators written in C.

Awards & Activities

UIC Bioengineering Student Journal — Editorial Board Member

- Chief Editor from Fall 2014 to Spring 2015.
- Author of *Advances in DNA Computing and Molecular Programming*.

NodeSchool Chicago — Mentor

President's Award Program Scholar

Work Experience

UIC Dynamic Simulation Laboratory, Chicago, Illinois

Webmaster

- Wrote a website using HTML, CSS, Javascript, and PHP.
- Provided extensive documentation so the site could be maintained after its completion.

UIC Department of Mathematics, Statistics, and Computer Science, Chicago, Illinois

Undergraduate Teacher's Assistant and Grader

- Teaching assistant for Professor Douglas Hogan.
- Graded weekly homework assignments in a timely manner and proctored overflow exams.

Skills

Languages

- C/C++, Java, Python, Ruby, Bash/Zsh, Javascript (Node.js, Express, React, Redux, Electron), MySQL, MongoDB, x86 (.64) Assembly, JSON, \LaTeX , HTML5, CSS.

Operating Systems

- Windows (XP — 10), Linux (Arch, Fedora, Kali, Ubuntu), OSX.

Tools

- Git/Github, Vim, Visual Studio, IntelliJ, Docker, Webpack, Babel, Virtual Box, Postman.