

# 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, Artificial Intelligence, Computer Networking, Secure Operating System Design, Secure Computer Systems, Codes and Cryptography.

## Selected Projects

### Arch Linux Installation Script

- Automated installation and development environment setup in Bash.

### ISOMaster

- Automated creation of Arch Linux installation ISOs utilizing Docker.

### Notebook

- Compile notes written in Markdown format into an easy to navigate website for easy viewing.

### Sudoku Solver

- Dancing Links implementation in Java for solving Sudoku puzzles using Algorithm X.

### Credits

- Basic cryptocurrency utilizing blockchain written in NodeJS.

## 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*.

**President's Award Program Scholar**

## Work Experience

**JP Morgan & Chase**, Chicago, Illinois Sep 2017 – Present  
*Account and Reference Data Analyst* – Contractor

- Built profiles and transmissions for Receivable Operations and provided support to ensure the delivered product met the expectations of the client.
- Communicated with project managers, connectivity analysts, and technology partners to meet client needs and deliver a finished project in a timely manner.
- Assisted the Public Sector team with tax form validation for the state of Michigan PERCENTS GO HERE.
- Assisted in maintenance of the ROSS project tracking database.
- Worked on early Enhanced Health Care projects and assisted in the creation of a comprehensive documentation for the team to use when implementing projects.

**Hahn's Bakery**, Geneva, Illinois Jun 2011 – Jan 2017  
*Sales Manager*

- Responsible for delivering product to off-site market locations and managing booths at said markets.
- Increased sales by 75% while securing lasting customer relationships in the Northern Suburban markets.
- Simultaneously maintained a sanitary and orderly workstation while keeping up with an accelerated sales pace and maintaining an accurate account of inventory and profit.

**University of Illinois at Chicago**, Chicago, Illinois

Sep 2012 – Dec 2015

*Student Employee*

- Balanced a 30-40 hour work week with full time engineering courses while commuting from the suburbs.

**Freelance Web Developer**

Nov 2013 – Feb 2015

## **Skills**

### **Languages**

- C/C++, Java, Bash/Zsh, Javascript (Node.js, Express, React, Redux), Python, PostgreSQL, JSON, YAML,  $\text{\LaTeX}$ , HTML5, CSS (SASS).

### **Tools**

- Git/Github, Docker, Webpack, Babel, Virtual Box, Postman.