

# William D. Ehrich

• Web: [wdehrich.com](http://wdehrich.com) • Email: [wdehrich@gmail.com](mailto:wdehrich@gmail.com) • Phone: (617) 775-5105 • Messenger: [wdehrich](#)  
• LinkedIn: [wdehrich](#) • Angellist: [wdehrich](#) • GitHub: [wdehrich](#) • HackerRank: [wdehrich](#)

## Education

**Northwestern University** (Evanston, IL) *Sept. 2016 – Jun. 2018*

**Degree:** Master of Science (MS) in Computer Science | **GPA:** 3.96/4.00

**Coursework:** • Design and Analysis of Algorithms • Biometrics • Introduction to Computer Graphics

• Human Computer Interaction • Introduction to Database Systems • Machine Learning

• Internet of Things • Readings in Database Systems

**Northwestern University** (Evanston, IL)

*Sept. 2009 – Jun. 2013*

**Degree:** Bachelor of Science (BS) in Chemical Engineering

## Work

**Software Engineering Intern** – The Boeing Company (Berkeley, MO) *Jun. 2017 – Aug. 2017*

- Performed a trade study on porting functionality from an SDK application to IDE plugins, developed proofs-of-concept from the ground up, and documented findings in a six-page report
- Presented findings to an engineering review board, consisting of senior engineers, technical fellows, and engineering managers

**Technical Support Engineer** – OSIssoft, LLC (San Leandro, CA)

*Sept. 2013 – Jun. 2016*

- Resolved issues with the design, implementation, and use of OSIssoft, LLC's proprietary PI System software, closing over 1,000 cases

## Research

**Research Assistant** – EECS Department, Northwestern University *Sept. 2017 – Present*

- Investigating secure querying for federated databases under Professor Jennie Rogers

## Projects

**Facebook Comment Volume Prediction** | Python, NumPy, scikit-learn *Apr. 2017 – Jun. 2017*

- Developed regression trees and neural nets to predict numbers of comments on Facebook posts

**Smart Space Heater** | Java, Raspberry Pi, IBM Bluemix, Twilio

*Apr. 2017 – Jun. 2017*

- Implemented a home Internet of Things temperature monitoring and notification system

## Organizations

**Institute of Electrical and Electronics Engineers (IEEE) at Northwestern** *Jan. 2017 – Present*

- Serving on executive board, helping plan hackathons and social events

## Volunteering

**Graduates Mentoring Undergraduates (GMU) at Northwestern** *May 2017 – Present*

- Providing academic and career advice to an undergraduate computer engineering student

**Splash at Northwestern**

*Apr. 2017*

- Taught an introductory class on developing websites with HTML to 12 high school students

## Skills

**Object-Oriented Programming (OOP) Languages:** Python (NumPy, scikit-learn), Java, C++, MATLAB

**Other Languages:** HTML, CSS, JavaScript, SQL, Git, XML, Bash, Windows Batch, PowerShell, LaTeX

**Integrated Development Environments (IDEs):** PyCharm, Eclipse, Visual Studio, WebStorm, Cloud9

**Other Software Tools:** MySQL, MS SQL Server, GitHub, Bitbucket, UltraEdit, Weka, IIS, PI System