

# William D. Ehrich

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## 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** – OSIsoft, LLC (San Leandro, CA) *Sept. 2013 – Jun. 2016*

- Resolved issues with the design, implementation, and use of OSIsoft, 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, 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

**Programming Languages:** Python, 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, UltraEdit, Weka, IIS, PI System