

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 trade study on porting functionality from a SDK application to an IDE plugin, built proofs-of-concept 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

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

Illuminated Jewels | JavaScript, WebGL, GLSL ES *Jan. 2017 – Mar. 2017*

- Created a world filled with 3D shapes, camera controls, and various lighting and shading methods

Grads on Track | HTML5, CSS3/Bootstrap, JavaScript/jQuery *Jan. 2017 – Mar. 2017*

- Built a web interface for an application used to track graduate school applications

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