

**Matthew Trefilek**

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<https://www.trefsoftware.com>

**Education****Northern Michigan University, Marquette, MI**

**GPA:** 3.92

Awarded Harden Full Ride Scholarship (Full Tuition, Room, Board, and Fees)

Majors: Computer Science and Math

Minor: Accounting

Graduated: May 2017

Outstanding Senior Math and Computer Science

**Work Experience****Associate Systems Developer**

University of Wisconsin Madison

May 2017 – Present

Full Stack Developer focusing on Java Spring Boot backend with Angular4 frontend development. Tasked with redesigning the email lists functionality for the university along with operational work for many different services. Worked with PHP and Node.js applications. Assisting the university with moving many projects to the cloud using Amazon Web Services.

**Security Product Services Intern**

IBM Security Product Services

May 2016 – May 2017

Lead intern on updating and improving the Adapter Development Tool, a Java program for creating database adapters for IBM's Security Identity Manager. One of two interns heading the Watson for Security Deployment Project. In charge of personal and team project management and goal setting while working remotely and reporting to a mentor.

**Research Intern**

Argonne National Laboratory Lemont, IL

May 2015 – July 2015

Conducting research in the fields of robotics and computer vision. Working towards combining augmented reality with physical robot operation. Working with OpenCV, ROS (Robot Operating System), PCL (Point Cloud Library), and the Oculus Rift SDK. Physical tools include the Baxter Research Robot, Phantom Omni, Oculus Rift, and the Microsoft Kinect. Using C++ and Python to write tests and integrate the frameworks.

**Other Work Experience**

Freelance Server Hosting and PHP and Mobile Application Development

Personal Node.js and Web Development using Amazon Web Services and Google Cloud

Work with Professor on an Android and iOS Application with REST API

**Community Involvement**

CoderDojo906 Leader and Mentor

Catholic Campus Ministry Peer Minister

Completed Superior Edge Volunteer Organization (400+ Hours)

Graduate of the Student Leader Fellowship Program

**References**

Available on Request