

**Matthew Trefilek**

(608) 247-5532

matthew.trefilek@trefsoftware.com

<https://www.trefsoftware.com>

**Work Experience****Senior Software Engineer**

Rentable

September 2019 – Present

Full Stack Developer working on Ruby on Rails backend with a React frontend. Working with various partners' feeds and APIs. Exposure to data collection and analysis with Python and GoLang. Investigating and implementing Natural Language Processing and Personalization machine learning problems. Utilizing Wit.Ai, OpenAI GPT3, and Twilio to advance renter communications via messaging platforms with a machine learning powered Chatbot. Creating highly available serverless systems capable of processing millions of streaming records. Managing infrastructure on AWS through Terraform.

**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

**Research Intern**

Argonne National Laboratory Lemont, IL

May 2015 – July 2015

**Education****University of Wisconsin – Madison**

Master's in Computer Science: Machine Learning and Big Data

Graduated: December 2021

**Northern Michigan University, Marquette, MI**

Majors: Computer Science and Math; Minor: Accounting

Graduated: May 2017

Outstanding Senior Math and Computer Science

**Other Work Experience**

Web Store with built with React, AWS, and Stripe

REST API and Mobile Application Development

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

**Community Involvement**

CoderDojo906 Leader and Mentor

Graduate of the Student Leader Fellowship Program