Timothy O'Malley, E.I.T.

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LinkedIn: https://www.linkedin.com/in/timothy-o-malley-b257bbb4/ **Github:** https://github.com/tmallz

Objective: Seeking full time employment in the field of Software Engineering in the Chicagoland area.

Technical Skills:

Computer Skills:

- **Programming** – HTML, CSS (,Multiple Frameworks) Javascript, C, C++, MATLAB, Mathematica, Interactive Heat Transfer, Interactive Thermodynamics.
- **Engineering Software -** Creo Parametric, AutoCAD, Ansys APDL, Ansys Fluent, Abacus, Revit.
- **Other –** Git, Excel, Word, Labview

Project Experience:

Moodue | https://github.com/tmallz/moodue | https://tmallz.github.io/moodue/

- Summary: App that provides you with events in your area based on your mood
- Role: Javascript developer/HTML
- Tools: HTML, Javascript, Jquery, APIs, Bootstrap, Materialize CSS

Weather App | https://github.com/tmallz/Tim-OMalley-Homework-6| https://tmallz.github.io/Tim-OMalley-Homework-6/

- Summary: App that provides the current weather and a 5 day forecast for a given city
- Role: sole author
- Tools: HTML CSS, Javascript, openweather APIs, Materialize CSS

Work Experience:

Amentum/AECOM 10/2019 - Present

HVAC Engineer 2 Greenwood Village, CO

- Performed engineering calculations to support project design.
- Produced technical specifications based on project design parameters.
- Designed and 3D modeled mechanical systems for mechanical drawings using AutoCAD MEP/AutoCAD Plant 3D

Elara Engineering 01/2019 - 06/2019
Hillside, IL

Mechanical Engineer

- Perform building heating and cooling load calculations.
- Analyze the load calculations to determine the most effective mechanical systems to put into place in each given building.
- Design and draft mechanical systems based on existing conditions of a building
- Perform airflow calculations based on Chicago building code and international building code.

Milhouse Engineering & Construction, Inc. 08/2016 - 12/2018 Chicago, IL

Assistant Mechanical Engineer

- Central Utility Plant Study: Performed an energy analysis and economic feasibility study on an 18,000 Central Utility Plant/Combined heating and power plant.
- Design mechanical systems to code for commercial buildings, focusing mainly on the HVAC portion of the design.
- Perform load calculations to determine the heating and cooling requirements for a given space.
- Size/Select equipment, both air side and water side, based on the heating and cooling required.

Education:

Coding Bootcamp Certificate, Northwestern University. Focus: **Web Development**

BSME, The University of Iowa, Iowa City, IA Major: **Mechanical Engineering**