

(248) 318-9475



tmachnacki.github.io



Lake Orion, MI

Courses

University of Michigan EECS:

Data Structures & Algorithms Mobile App Dev. for Entrepreneurs Software Engineering

Web Systems

Information Retrieval

User Interface Development

Game Development

Free Code Camp Certifications:

Backend Development and APIs Front End Development Libraries

Projects

InstaSham

A responsive, dark-themed, full-stack Instagram clone built with React, Flask, sqlite3, MDBootstrap and more

Twitter Sentiment Analyzer

Classify tweets and display sentiment trends. Built with Flask, Bootstrap, and python's scikit-learn and PySentimiento

<u>AntiSocialMedia</u>

A social media app built with MongoDB, Express, React, Node, MUI, and Heroku; responsive with light/dark theme toggle

CourseWork Calculator

An SPA to help U of M students build Schedules. Built with Vue, Vuetify, Flask, Selenium, sqlite3

Skills

Languages

Python, C++, C#, SQL, JavaScript, HTML, CSS

Frameworks / Libraries

React, Vue, Vuetify, Bootstrap, Express, MongoDB, Flask, Django, Jinja, NodeJS

Other Skills / Tools / Apps

Office, SalesForce, InDesign, YouTube, PhotoShop, FL Studio, Unity Engine

Interests

Sports, Lifting Weights, Fishing, Water Skiing, Christopher Nolan movies, Dogs, Music

Experience

Software Quality Engineer Intern • Nexsys Technologies

June 2020 - August 2020, June 2021 - August 2021 // Detroit, MI

- Refactored / updated legacy code for ClearSign.
- Improved test suites based on performance analysis metrics
- Attended weekly "learn to code" sessions, delving into code base
- Worked in Agile environment // worked with C# .NET core

Advanced Simulation Technologies Intern • AVL Powertrain Engineering

June 2019 - August 2019 // Plymouth, MI

- Worked with software sales engineering team
- Projects included a five-year software sales analysis, report, and presentation; University Partnership Program SWOT analysis; and a marketing ROI data analysis
- Shadowed during code inspection and code reviews

EECS 481: Software Engineering

January 2022 - April 2022 // University of Michigan // Ann Arbor, MI

 Assignments included creating high-coverage test suites (manually & automated). using mutation testing, defect detection via static analysis tools, implementing delta-debugging, and an open-source contribution

Music Production

Sept 2016 - Present // Lake Orion, MI

 Manage website and YouTube channel; lease tracks to artists; and produce, mix, and master tracks

Education

University of Michigan • Bachelors of Science

Sept 2018 - April 2022 // Ann Arbor, MI

• Graduated with a major in Computer Science through LSA and 3.45 GPA

Orchard Lake St. Mary's Preparatory • High School

August 2014 - May 2018 // Orchard Lake, MI

Graduated third in class with a 4.21 GPA

Achievements

University of Michigan Men's Club Lacrosse Captain

October 2020 - April 2022

Helped coordinate team practices and events on and off the field

J.P. Morgan Chase EECS 183 Computer Science Showcase Winner April 2019

Awarded to a team based on project's complexity and ingenuity

MHSCLA Academic All American

May 2018

 Awarded to a player based on lacrosse skills, sportsmanship, academic achievement, and quality of character