Thomas Rooney

(763)-688-1516 | tomjamesrooney@gmail.com

EDUCATION

University of Minnesota Twin Cities - B.S. Computer Science

- GPA: 3.399
- Upper Division Track: Software Engineering

TECHNICAL SUMMARY

GITHUB: https://github.com/Thomas|Rooney

PORTFOLIO WEBISITE: https://thomasjrooney.github.io/

PROGRAMMING LANGUAGES | Java, Python, C, C++, SQL, TypeScript, JavaScript, CSS, HTML5, OCaml, Ruby, Perl, R, Bash, x86 Assembly TECHNOLOGIES | Git, GitHub, BitBucket, Jira, Angular, Agile, ExpressJS, NodeJS, MongoDB, MySQL, Heroku, AWS EC2, Linux, Slack, Teams

EXPERIENCE

Software Engineer Intern - Infinite Campus

June 2020 - May 2021

GRADUATED: May 2021

- Developed new activity registration product for various school districts throughout the united states
- Created hundreds of automated unit and integration tests to ensure product quality
- Worked in collaboration with a remote agile team
- Java, SQL, HTML, TypeScript, Angular, Git, BitBucket, Teams

Linux System Administrator – *University of Minnesota, College of Science and Engineering*

July 2019 - May 2020

- Debugged the college's quota management system and refactored the REST API
- Developed automation scripts for increasing the efficiency of systems
- Python, Perl, Ruby, Bash, Github, Slack

Personal Growth Journal Web Application - Personal Project

- Designed, developed, tested, and deployed this system to track my goals, habits, and personal growth
- NodeJS, ExpressJS, MongoDB, JavaScript, HTML, CSS, Bootstrap, AWS EC2, Heroku
- Code base: https://github.com/ThomasJRooney/Grojo
- Live application: https://grojo.herokuapp.com/

Machine Learning Stock Trading System - Neural Networks Class Project

- Designed and developed a system that uses machine learning to trade stocks profitably based on historical data
- Python, MatPlotLib, Pandas, TensorFlow, Keras, Long Short Term Memory Artificial Recurrent Neural Network
- Code base: https://github.com/Thomas[Rooney/MachineLearningStockTrading

Sorry! Artificial Intelligence Simulation - Artificial Intelligence Class Project

- Implemented the popular artificial intelligence algorithm Monte Carlo Tree Search to play the board game Sorry!
- Wrote an original research paper based on the results of 10,000 simulated games
- Java
- Research paper: https://github.com/Thomas[Rooney/SorryAlSimulation/blob/main/Al_Research_Paper.pdf
- Code base: https://github.com/Thomas]Rooney/SorryAlSimulation

Vote Aggregation System - Software Engineering Class Project

- Implemented a graphical user interface for customer ease of use
- Designed, developed, debugged, and tested this system with a four-person team implementing the agile methodology
- Java, HTML, Spring, Java Docs, JUnit
- Code base: https://github.com/ThomasJRooney/VoteAggregationSystem

LEADERSHIP AND AWARDS

First Year Leadership Member - Perfect Attendance Award - University of Minnesota

2018

Varsity Hockey Captain -Buffalo High School

2015-2017

LINKEDIN | https://www.linkedin.com/in/thomasjamesrooney/