

Clara Watson

clarafication.j@gmail.com | linkedin.com/in/clarafication | github.com/watson-clara

EDUCATION

BS in Computer Science, Minor in Mathematics

Oregon State University

Course Highlights: MTH 341 Linear Algebra, MTH 351 Numerical Analysis, MTH 355 Discrete Mathematics, MTH 361 Probability, MTH 365 Computational Linear Algebra, ST 314 Engineering Statistics, CS 340 Databases

EXPERIENCE

Software Engineer Internship

May 2023 – Aug 2023

Macquarie Group

Houston, TX

- Worked on the Cyber Threat & Incident Response (CTIR) team at Macquarie's Tech & Innovation subdivision.
- Led the successful transition of CTIR metrics from Swimlane 4 to Swimlane 10, ensuring smooth adoption and improved efficiency.
- Implemented APIs to automate the gathering of data from different platforms, including Splunk and Proofpoint, resulting in a more streamlined and efficient process for data integration and analysis.
- Collaborated with other teams in CTIR to implement automated processes, enhancing metric collection and analysis using Python.
- Leveraged JIRA and Confluence to facilitate project tracking, for efficient collaboration with Agile Scrum structure.

Math Instructor

2020 - 2023

Mathnasium

Henderson, NV

- Provided exceptional instruction to students across various levels, from pre-K to calculus 2.
- Delivering personalized guidance and support within a group setting, facilitating a collaborative learning environment conducive to student success.
- Collaborating effectively with team members to develop and implement instructional strategies, fostering a cohesive and supportive teaching environment.
- Engaging in positive and constructive interactions with parents, addressing concerns and providing regular updates on students' progress to ensure transparency and satisfaction.
- Conducting ongoing assessments to monitor students' progress and identify areas for improvement, adapting instructional approaches as needed to optimize learning outcomes.

PROJECTS

AgBizClimate | *AngularJS, Chart.js*

agbizlogic.com/about/#climate

- This project is one of the climate tools apart of the AgBiz Logic online suite. AgBiz Climate collects climate data and presents that in a concise manner with data visualization through meaningful graphs and visual aids in order to inform the decisions of agricultural producers.

Remedia Library Database | *Python, Flask, SQL*

github.com/watson-clara/Remedia-Library-Database

- This project is a library database and website designed for an elementary school. The website consists of four pages where the user can add students to the database, check-out and return books, and view loans. On my GitHub you can find an entire project outline, database schema, and ERD

Sudoku Validator | *Java*

github.com/watson-clara/Sudoku-Validator

- This project includes a Sudoku validator that given a 2D array of integers representing a Sudoku grid, validates the solution based on the three sudoku rules: all rows, columns, and 3x3 squares must contain numbers 1-9 uniquely.

Astrology Microservice API | *Python, Docker*

github.com/watson-clara/Astrology-Microservice-API

- This microservice creates an API that will take in someone's birthday in the form monthday in numbers and return their astrological sign.

Fun With CAD | *Python, pyAutoCad*

github.com/watson-clara/FunWithCAD/tree/main

- This project demonstrates how to use PyAutoCAD, a Python library for interacting with AutoCAD, to draw a simple ice cream cone.

OPEN SOURCE CONTRIBUTIONS

Star Cipher	github.com/starhound/StarCipher
This is a simple python program for encrypting/decrypting single messages using classic ciphers.	
ClipMenu	github.com/watson-clara/ClipMenu/tree/patch-1
MacOS program, written in Swift, for clipboard management.	
RDKit	github.com/watson-clara/rdkit
Helped update python for new release. Changed from unittest to pytest.	

SKILLS

Languages : Java, Python, C/C++, SQL, JavaScript, HTML/CSS, R, Typescript
Frameworks : AngularJS, Node, Flask, jQuery, WordPress, PyTest, FastAPI, React
Developer Tools : VS Code, Visual Studio, Eclipse, Atom, XCode, Adobe Dreamweaver, RStudio, MySQL, Postgres
Cybersecurity Tools : Swimlane, Splunk, Wireshark
Project Management : Git, Jira, Agile, GitHub, Confluence, Trello, SCRUM
Finance : Options Trading, Stock Market Research, Trading Algorithms, Data Analysis and Interpretation
Other : Linux, Unix, Networking Protocols, Embedded Systems, Debugging

SOFT SKILLS

- **Procedural Accuracy:** Proficient in following instructions accurately for efficient task completion.
- **Adaptability in Fast-Paced Environments:** Efficiently manages time amidst rapid changes to meet deadlines.
- **Effective Communication:** Exceptional verbal and written skills, fostering collaboration for successful outcomes.
- **Team Collaboration:** A positive team player fostering a supportive work environment.
- **Attention to Detail:** Meticulous approach ensuring accuracy in all work, delivering high-quality results.
- **Problem-Solving:** Proactive in identifying and resolving challenges using critical thinking.
- **Flexibility:** Agile in navigating dynamic work environments, adjusting strategies for optimal results.
- **Customer Focus:** Committed to exceeding expectations, addressing needs with empathy and professionalism.