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#### Education

#### BS in Computer Science, Minor in Mathematics

Oregon State University

### **Professional Summary**

I am an innovator at heart. I thrive on solving complex problems and getting lost in code. In my current role, I've honed my skills in developing scalable solutions and collaborating across teams. I am passionate about building innovative solutions and exploring creative expression through technology.

# **Experience**

### **Software Engineer**

Opt8 Automations

September 2023 - Present

- O Designed and executed unit/integration tests to verify system functionality and prevent regressions across deployments.
- Created Selenium-based automation tools to simulate user behavior and uncover UI/UX or functionality issues.
- O Maintained Git-based workflows and CI/CD pipelines to support continuous testing and rapid deployment cycles.
- O Automated workflows using Make, Zapier, n8n, and Python, minimizing manual errors and improving operational efficiency.
- Collaborated across teams to deliver and maintain end-to-end software solutions, troubleshooting issues post-deployment.

### **Software Engineer Intern**

Macquarie Group

May 2023 – August 2023

- O Built automation workflows for incident escalation, ensuring high-priority security events were processed quickly and accurately.
- Automated data gathering from Splunk and Proofpoint using custom API integrations, enhancing incident response visibility.
- O Supported CTIR team as first-response engineer for system anomalies and security alerts, triaging incidents for escalation.
- Improved real-time visibility by optimizing data pipelines to extract key metadata fields for monitoring system health metrics.
- Utilized JIRA and Confluence for project tracking and detailed documentation in an Agile Scrum environment.

#### Mathnasium

Junior Developer

2020 - 2023

- O Developed Python-based educational games to reinforce student learning through interactive tools.
- O Automated data entry workflows with Google Apps Script, improving analytics and reporting.
- O Maintained and debugged internal applications, ensuring data integrity and system stability.
- Wrote and maintained SOPs (Standard Operating Procedures) for instructional workflows.

# **Capstone Research**

Neural Networks: Foundations, Applications, and Ethical Considerations

- O Conducted self-directed research & authored an 18-page report on Neural Networks, covering FNNs, CNNs, and RNNs.
- O Analyzed backpropagation, optimization techniques, and applications in computer vision, NLP, and finance.
- Explored ethical concerns in AI, such as bias, transparency, and data privacy.

### **Projects**

#### SheetSmart - HVAC Management System

C#, ASP.NET Core, SQL Server, Entity Framework Core

https://github.com/watson-clara/SheetSmart

- O Developed a comprehensive project management system for sheet metal manufacturing and HVAC businesses.
- Built a job tracking system with state management, role-based security, Entity Framework Core, and SQL Server.

#### **Sorty - File Comparison Tool**

PHP, CI/CD, PHPUnit, Docker, JavaScript

https://github.com/watson-clara/Sorty

- O Developed a high-performance PHP application for comparing large text files with **O(n) time complexity**.
- Implemented unit testing with PHPUnit, ensuring over 90% code coverage and reliability.

#### **Inclusive Form Builder**

Ruby on Rails, PostgreSQL, Bootstrap, MVC Design

https://github.com/watson-clara/Inclusive-Form-Builder

- $\circ$  Built responsive UI components using Bootstrap 5 for an intuitive form creation experience.
- O Applied MVC design patterns to maintain clean architecture and separation of concerns.

#### **E-Commerce Tax Calculator**

PostgreSQL, React, Node.js, Express, Docker

https://github.com/watson-clara/E-Commerce-Tax-Calculator

- Designed a PostgreSQL database with optimized schema for tax jurisdictions, rates, rules, and transaction history.
- Implemented a Node.js/Express backend with layered architecture for tax calculation and data persistence.

# Astrology Microservice API

Python, FastAPI, Docker, REST API

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

O Developed a FastAPI microservice to provide real-time astrological insights and followed Test-Driven Development (TDD).

# JSONPrettifier

Go, React/TypeScript, GraphQL, CI/CD

https://github.com/watson-clara/JSONPrettifier

### Skills

Python, Go, C#, SQL, CSS, TypeScript/JavaScript, Java, Ruby, React, Next.js, Tailwind, Figma, Bootstrap, PostgreSQL, GraphQL, Flask, SQLAlchemy, Agile, Docker, CI/CD, Git, Make, Zapier, Al-powered Automation, n8n, Swimlane, SEIM, SOC 2, ISO 27001, IAM, IDS/IPS, Linux, Unix, Embedded Systems, Debugging, AI Ethics & Responsible AI Development