# **ROMAN SOSIAK**

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#### **EDUCATION**

BS, Computer Science | GPA: 4.0

Oregon State University

Expected Dec. 2023 Corvallis, OR

**BS, Chemical Engineering** 

Aug. 2010 – May 2014

University at Buffalo

Buffalo, NY

## **PROJECTS**

### Trading Card Game (TCG) Catalog and Wish List | JavaScript, MongoDB, Express, React, NodeJS

- Engineered a full stack web application, allowing user to maintain a TCG card catalog and wish list
- Implemented backend with NodeJS and Express to execute CRUD operations via REST API route endpoints, storing persistent data between sessions using MongoDB
- Designed frontend UI components using React, HTML, CSS
- Interfaced with Pokemon TCG API, allowing users to quickly retrieve card metadata

#### Medicaid Recipient Summary Profile | JavaScript, OracleDB, Express, React, NodeJS

- Produced a web application that allows a user to view a Medicaid recipient's claims data and exception codes
- Fetched data from Medicaid data warehouse with oracledb Node module and presented on frontend using React hooks
- Enabled filtering of claims by date range and service type

#### **Discrete Math Homework Helper** | TypeScript, React, React Router, NodeJS

- Constructed a client-side website that solves and provides step-by-step solutions to discrete math problems for multiple topics
- Developed functionality to generate practice problems for user to solve
- Devised an interactive frontend using TypeScript, React, HTML, CSS

#### Hasami Shogi | Python

- Developed a backend framework for the two-player board game Hasami Shogi
- · Crafted text-based visualizations, allowing users to play game in terminal
- Applied OOP principles and data structures to break down relationship between players, game pieces, and game board
- Utilized unit tests and integration tests (via unittest library) to ensure bug-free code

#### EXPERIENCE

### **Senior Business Intelligence Engineer**

May 2019 – Present

Research Foundation for Mental Hygiene

Albany, NY

- Set up automated ETL data pipelines using Python, Luigi, Oracle SQL, and SSIS, processing millions of rows of data weekly
- Created a web application allowing users to view a summary of a Medicaid recipient's profile, saving hours of manual querying
- Built and maintained tabular data models and BI reporting dashboards used by 15+ analysts and program managers
- Trained staff on best practices regarding use of BI dashboards to answer data-related questions
- Led 5 person data team in effort to improve documentation of data dictionaries, data flows, and schema design
- Refactored and optimized SQL queries using execution plan and index tuning, improving query times by 20x
- Prototyped transition of a project management system from Excel spreadsheet to web application using Flask, TypeScript, and React, aiming to increase productivity and better prioritize projects for completion

Data Analyst Jan. 2019 – May 2019

Ellis Medicine

Schenectady, NY

- Developed Python scripts to automate the creation and distribution of monthly Excel data reports, decreasing time spent by 100x
- · Built analytical tools in Excel to monitor KPIs, verifying hospital met contractual and regulatory guidelines
- Collaborated with cross-functional teams (nurses/physicians, IT) regarding data reporting tools and needs

## **TECHNICAL SKILLS**

Languages: Python, JavaScript/TypeScript, SQL, HTML/CSS

Technologies/Frameworks: Flask, React, Express, Luigi, NodeJS, Git

Databases: Oracle SQL, PostgreSQL, MySQL, MongoDB