JONAH BEERS

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EDUCATION

Moravian University – Bethlehem, PA – Graduated May 2021

- B.S. Computer Science, Minor Mathematics
- 3.7 GPA – Magna Cum Laude
- Pi Mu Epsilon – Mathematics Honors Society
- Moravian College Computing Club – Secretary

PROJECTS/EXPERIENCE

Pokémon Stock Market – Software Development Project   August 2021 – Present

- Designing a system for displaying over 17,500 Pokémon cards' price data and trends from TCGplayer's API
- Implementing a service to get data from the API and store in a MySQL database
- Creating front end with HTML, CSS, Javascript, and React to display data and allow users to search for cards
- Developing back end with Express to get data from database, so front end can access it through endpoints

Mirrulations – Senior Capstone Project   February – May 2021

- Developed software (work generator, work server, dashboard, and client) on an agile-based team
- Implemented a work generator that accesses Regulations.gov's API to store endpoints as jobs in Redis
- Designed a Flask API with endpoints for clients to get a job or return JSON for the server to download
- Utilized Pytest to ensure 95% test coverage on codebase and Jenkins for testing when making pull requests

Parallel N-Body Problem – High Performance Computing Project   March – April 2021

- Simulated movement of n bodies using both serial and OpenMP multithreaded programs in C
- Achieved over 1800% speedup with multithreaded program when running simulation with 1000 bodies

3D Printer Flask API – Web Programming Project   November – December 2020

- Developed Flask API that interacts with Ultimaker printer API to expose print job and temperature data
- Utilized Redis to store current jobs and temperatures so data is not lost after jobs/temps change

Inventory Management System – Networking Project   March – April 2020

- Designed inventory management RPC server that supports XML-RPC and gRPC that ran on AWS S3 instance
- Developed a Python command line client that can get product info and stock, and get/create orders

Clinical Trials Data Analyst – Merck & Co. funded Internship   May – August 2019

- Collaborated on an undergraduate student research team and practiced agile methodologies
- Developed an automated pipeline using the AWS CLI to populate Postgres database with clinical trials data
- Analyzed clinical trials data to create chart/map visualizations and presented findings to Merck employees

SOFTWARE SKILLS

- **Proficient in**: Python, Git, Flask, Scrum, Redis, Java
- **Worked in**: SQL, Bash, C, HTML5, CSS, Node.js, Express, Javascript, AWS, TDD, CI/CD
- **Interests**: Back-End Development, RESTful API Development