

JACOB WARO

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SUMMARY

- Master of Computer Science student with 4 years of experience in Object Oriented Programming.
- Experience: programming, technical support, backend development and data management.

EDUCATION

Master of Computer Science

December 2020

- University of Minnesota – Twin Cities
- GPA: 3.83

B.A. Geographic Information Systems & Economics

May 2018

- University of Wisconsin – Madison

EXPERIENCE

Data Management & Data Science Intern - Chicago Transit Authority, Chicago, IL 2020 – Present

- Transformed a monolithic Extract Transform Load (ETL) process into an ETL microservices architecture.
- Created serverless Python programs using AWS Lambda to perform data management tasks. Implemented build pipelines to institute good CI/CD practices.
- Added a concise cloud logging strategy with AWS CloudWatch to fully monitor system tasks.

Technical Services Engineer - Epic Systems, Verona, WI

2018 – 2019

- Supported three hospital systems' registration, insurance verification, and patient movement applications.
- While debugging error logs, I revealed faulty code that corrupted insurance verification records; a speedy development task was then prioritized and put into production before the app's implementation.
- Managed a client project implementing the EVS mobile application, improving bed cleaning times.

GIS Research Assistant (UW – Madison) - Dept. of Applied Economics, Madison, WI 2017 – 2018

- Built a web application using JavaScript, HTML, & CSS to visualize the United States' cooperative economy.
- Created an optimal workflow for research reproducibility, having designed Python data processing scripts and the application's source code to update with minimal effort after a data update.
- Consumed Google's Location API services to geocode data with missing spatial information.

PROJECTS

STV Voting System – Graduate School

Spring 2020

- Command line program written in Java that facilitates ballot processing of a Single Transferable Vote or Plurality styled election, with fully logged processing to trace an election's results.
- Worked in a team of four, utilizing Waterfall development process for requirements engineering and implementation (Phase 1). An Agile Scrum methodology was then implemented for feature enhancements and bug fixes.

CourseMeta – Personal

Spring 2020

- Website created with ReactJS and Node.js that helps provide college students with course reviews by allowing users to rate and comment about courses they've taken.

SKILLS

- **Programming Languages:** Java, JavaScript, Python, HTML5, CSS3
- **Web Development:** RESTful APIs, ReactJS, Node.js, jQuery, Amazon Web Services (Lambda, CodeBuild, CodeCommit, DynamoDB, S3, EC2)
- **Software Engineering:** Agile Scrum, Waterfall, Test Driven Development, Object Oriented Programming, System Design, Requirements Engineering, Git, Linux, CI/CD