

Sean Warren

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Chemical and Biomolecular Engineering

May 2020

Minor: Scientific Computing and Engineering

PROFESSIONAL EXPERIENCE

OMP Inc.

Marietta, GA

Technical Consultant | Software Design and Development

July 2020 – April 2022

- Designed internal and external tools to solve supply chain challenges in the chemical industry
 - Transformed customer requirements into technical specifications and implementation plans
 - Turned large ERP database sets into analytical and actionable products for end users
 - Simulated and optimized transport/production logistics

Binergy Scientific Inc.

Atlanta, GA

Test Engineer | Product Developer and Data Analyst

May 2019 – Jan 2020

- Developed biosensors for toxin detection in military and emergency response applications
 - Implemented device data filtering and analysis methods and an end user interface
 - Built database to store proprietary product testing and development info
- Developed anode materials and production strategies for thermal battery applications
 - Influenced use of lean-manufacturing techniques to improve manufacturing productivity by 60% through optimization of technician SOPs

University of Illinois, Chicago/Argonne National Laboratory

Chicago, IL

Undergraduate Researcher | Glusac Group

Jan 2017 – Jul 2017

- Predicted and developed candidates for graphene energy storage
 - Developed algorithm to predict the properties of graphene structures, reducing supercomputer access cost by 70%
 - Published findings in ACS Applied Materials & Interface: Electron Transfer Kinetics at Graphene Quantum Dot Assembly Electrode

PROJECT EXPERIENCE

Data Analytics | Water Quality Analysis | Python

- Managed large relational databases from the Atlanta Watershed to track water quality
- Initiated and executed plan to decrease cost of contaminant monitoring by 40%
- Organized local contaminations and proposed solution strategies using clustering methods trained on statewide data
- Recommended corrective actions to improve quality and monitoring in neglected areas

Production and Design | Benzyl Acetate Production

- Designed enzyme-catalyzed benzyl acetate production process with 20% higher profitability than current industrial standards
- Decreased potential capital cost by \$6 million by designing process from current equipment specs

Multiplayer Real-Time .io Game | Python/Django/Typescript/React

- Built a real-time, web-based, multiplayer game utilizing websockets and RestAPI on a Django/Postgres backend with a Typescript/React frontend.

SKILLS

Programming:

Python, Typescript/JavaScript, HTML/CSS, MATLAB, SQL

Frameworks:

Django, React, Tailwind, Postgres, GraphQL, RestAPI, Websockets

Software:

Excel, Unix shell, Git