Leo Ware

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Experience

Carnegie Mellon University Pittsburgh, PA
Research Intern – Human Computer Interaction Institute May 2022 - August 2022

- Performed rapid prototyping in Typescript/React/Firebase for the Knowledge Accelerator Lab
- Designed and built a complex drag and drop, kanban-like interface for online sensemaking supporting real-time collaboration and text editing
- Collaborated with a data scientist on ML-based structured information extraction from web content, integrating intuitive AI-assisted online sensemaking into my interface
- My interface was chosen to demo to Firefox as my team sought a strategic partnership

Masason AI Incubator @ SoftBank San Francisco, CA
Software Engineer June 2021 - September 2021

- Our student team received a $20,000 grant from the SoftBank Masason AI fund for our product idea
- Led front-end development for the project, writing 4000+ lines of Typescript/React code
- Cut render times by 90% by developing a memoization scheme relying on immutable data structures
- Worked in close consultation with a designer, conducting 5+ user-interviews to refine the UX
- Presented to the CEO of Deepcore and VP of SoftBank

Education

Minerva University San Francisco, CA
Candidate for Bachelor of Science, Computational Sciences September 2019 - December 2023

- Coursework focused on applying computational techniques to real-world problems, with classes in Data Structure & Algorithms, Artificial Intelligence, Machine Learning, Causal Inference, and Bayesian Statistics
- Lived in 6 global cities as part of the Global Rotation program, learning intercultural communication and an ability to navigate new environments

Projects

PQP (link)

- Designed and implemented an end-to-end, open-source framework for structural causal modeling.
- Combined a high-performance backend written in Rust with an intuitive Python wrapper for ease of use.

Traffic Modeling (link)

- Extended Nagel-Schreckenberg traffic model to arbitrary network topologies
- Designed and solved an analytical approximation using a system of differential equations
- Fit model parameters to real Berlin traffic data using genetic optimization
- Implemented an agent-based model in Python
- Studied throughput under four different control strategies

Accomplishments and Certifications

- National Merit Finalist
- Eagle Scout

Skills: Python, Typescript, React, Rust