Daniel Weber

dweber11@jhu.edu | 917.200.7111 | 184 Ardmore Ave, Staten Island, NY 10314

EXPERIENCE

ZENNER | Machine Learning Intern

May 2020 - Sept. 2020 | Tel Aviv, Israel

- Created high-performance chatbot NLU models and integrated multiple travel industry APIs to provide a seamless end-user experience.
- Technologies: Python, Javascript, Tensorflow, Rasa, Docker, Git

DAVID ENERGY | Machine Learning Engineer

July 2019 – Sept. 2019 | Brooklyn, New York

- Created machine learning models to predict a building's electricity demand with 97% accuracy and deployed said models to allow for real-time prediction and scalability.
- Built out the company's IT solutions via a thorough understanding of the intricacies of AWS.
- Technologies: Python, Git, Tensorflow, Scikit-Learn

PROJECTS

SERENDIPITY - NETWORKING VIDEO CHAT ROULETTE

- Created an efficient P2P webRTC-based video chat platform with a Redis-backed matching engine.
- Designed and implemented a user authentication system and database using OAuth and PostgreSQL.
- Technologies: Node, Django, PostgreSQL, Redis, OAuth, WebSockets

STUDENT INVOLVEMENT

SPIRE - RESILIENCY FOR THE US POWER GRID

Jan. 2021 – May 2021

- Demonstrated a variety of successful attacks against the SPIRE system which aims to build a resilient system to control the US power grid.
- Our work will be used by the DOE and DOD in working to deploy SPIRE to control the Eastern Interconnection (US East Coast Power Grid).

PROJEXTX MACHINE LEARNING COMPETITION | Team Leader

Sept. 2020 – Dec. 2020

- Produced research paper detailing a random forest architecture capable of tackling open problem of phage-host interaction with 94% accuracy.
- Technologies: Python, Git, Tensorflow, Scikit-Learn

TA - DISCRETE MATH/COMPUTER SYSTEM FUNDAMENTALS

Sept. 2020 – May 2021

- Taught students low-level computing concepts like data representation, memory safety, and parallelism while performing code reviews.
- Performed teacher's assistant duties for the Honors Discrete Math Course including teaching recitation, holding office hours, and grading homework.

PUBLICATIONS

[1] D. Avtanski, A. Lavi, K. Bahl, M. Kaiser, D. Weber, et al. Proinflammatory cytokines modulate resistin expression in breast cancer cells. *Endocrine Society*, 2019.

[2] D. Weber et al. Resistin induces epithelial to mesenchymal transition (emt) in breast cancer cells through activation of axl tyrosine kinase receptor. *Journal of the Endocrine Society*, 2019.

EDUCATION

JOHNS HOPKINS UNIVERSITY

BS Computer Science
BS Applied Math and Statistics
BA Pure Mathematics
Expected May 2023 | Batimore, MD
Whiting School of Engineering
Cum. GPA: 3.96 / 4.0 ACT Score: 35

LINKS

Github:// **danielkweber**
LinkedIn:// **daniel-k-weber**
SPIRE:// **Attack Demonstration**

COURSEWORK

UNDERGRADUATE

Introduction to Algorithms
Data Structures
Computer System Fundamentals
Honors Discrete Math
Honors Linear Algebra
Intro to Optimization
Differential Equations and Applications
Honors Multivariable Calculus

SKILLS

LANGUAGES

Python | Java | C | C++ | Go | Javascript | Matlab | SQL | LaTeX | x86 Assembly

TECHNOLOGIES

Git | AWS/Google Cloud | Docker | OOP | Node.js | Express.js | Django | MongoDB | Postgre | TensorFlow

SOFT SKILLS

Communication | Leadership | Office Suite | Project Management

AWARDS

Hofstra Presidential Essay Award
Dean's List
National Honor Society
National AP Scholar