Daniel Weber

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EXPERIENCE

ZENNER | Machine Learning Intern
May 2020 - Sept. 2020 | Tel Aviv, Israel
- Utilized the transformer architecture to create high-performance NLU models to be used in a chatbot context while integrating the ML aspect of the technology into the larger software product.
- 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

DAY.LY - ASSIGNMENT AGGREGATOR AND PLANNER
- Scraped and parsed assignment websites to create an aggregated calendar of student responsibilities.
- Designed MongoDB database to store student event information along with secure login information.
- Technologies: Node, Express, Git, MongoDB, OAuth

SERENDIPITY - NETWORKING VIDEO CHAT ROULETTE
- Created an efficient P2P video chat platform using webRTC.
- Designed and implemented a user authentication system and database using OAuth and PostgreSQL.
- Technologies: Node, Django, PostgreSQL, webRTC, OAuth, WebSockets

STUDENT INVOLVEMENT

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

TEACHER'S ASSISTANT AND GROUP TUTORING LEADER
Sept. 2020 – Jan. 2020
- Performed teacher's assistant duties for the Honors Discrete Math Course including teaching recitation, holding office hours, and grading homework.
- Led two weekly group tutoring sessions for the Discrete Math course where I cemented students' understanding of the material through active learning.

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: 3.95 / 4.0   ACT Score: 35

LINKS

Github:// **danielkweber**
LinkedIn:// **daniel-k-weber**

COURSEWORK

UNDERGRADUATE
- Data Structures
- Computer System Fundamentals
- Honors Discrete Math
- Honors Linear Algebra
- AP Statistics
- Intro to Optimization
- Differential Equations and Applications
- Honors Single Variable 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 Pesidential Essay Award
Dean's List
National Honor Society
National AP Scholar