Daniel Weber

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EXPERIENCE

AMAZON.COM | Software Engineer Intern

May 2021 - Aug. 2021 | Seattle, Washington

- Designed and implemented a heap dump analysis tool to aid developers in the optimization of processes utilizing over 250GB of heap memory.
- Leveraged continuous development/integration to develop an extensible and resilient platform that can eveolve with changing business needs.
- Implemented automation to give developers easy access to up-to-date heap dump files, shortening an 8 hour process to a minutes long task.
- Technologies: Java, AWS, CodePipelines, Git

ZENNER | Machine Learning Intern

May 2020 - Sept. 2020 | Tel Aviv, Israel

- Developed a high performance NLU chatbot that enabled customers to seamlessly manage their travel experience.
- Integrated with travel industry APIs to predict flight delays and proactively notify customers.
- Technologies: Python, Javascript, Tensorflow, Rasa, Docker, Git

DAVID ENERGY | Machine Learning Engineer

July 2019 - Sept. 2019 | Brooklyn, New York

- Designed and curated an extensive dataset of electricity usage predictors from both internal and external sources.
- 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.
- Architected an AWS cloud solution to allow the comapany's resources to scale with demand.
- Technologies: Python, Git, Tensorflow, Scikit-Learn, AWS

STUDENT INVOLVEMENT

SPIRE - RESILIENCY FOR THE US POWER GRID

Jan. 2021 - May 2021

- Performed red-team attacks against SPIRE, a distributed system which aims to build a US power grid that is resilient to cyberattacks.
- Demonstrated a resource consumption attack capable of taking the system down in under 20 minutes.
- Worked with the Department of Defense on further attacks and mitigations.

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: 3.97 / 4.0 Major GPA: 4.0

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

Computer Graphics

Honors Multivariable Calculus

SKILLS

LANGUAGES

Python | Java $\mathbb{C}++$ Go Javascript | Matlab MT_FX 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

CERTIFICATIONS

Dean's List | AWS-Certified