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
- 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

CERTIFICATIONS

Dean's List
AWS-Certified