Sevan Brodjian

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EXPERIENCE

Ameren
UIUC Research Park, IL | Oct. 2020 - Present
Assoc. Data Scientist & Data Science Intern

- Led a high-performing team of 8 interns ranging from undergrad to PhD, using Agile Scrum to deliver 3 cutting-edge Machine Learning projects and the team's most successful summer to date
- Developed a high-accuracy Deep Survival Analysis RNN model predicting employee attrition, resulting in substantial cost savings due to data-driven insights
- Trained and deployed end-to-end ML pipelines using Python, SQL, and cloud tools to automate processes in forecasting and classification, resulting in dozens of man-hours saved per week
- Spearheaded the development of the S3Synchrony Python package which provides automatic versioning for AWS S3 with checksums and the boto3 library enabling the group's full adoption of S3 for data storage

Bank of America
Chicago, IL | May 2022 – Aug. 2022
Cybersecurity Analyst

- Conducted in-depth research on security risks associated with various corporate products and services, enabling the team to evaluate three times more services per week.
- Demonstrated practical expertise in cybersecurity by participating in simulated pentesting exercises on a Kali Linux setup.

ICORLAB Semiconductor Laboratory
Champaign, IL | Feb. 2020 – Aug. 2021
Undergraduate Researcher

Simulation of Wide-bandgap Electronics || PI: Prof. Can Bayram

- Designed novel microelectronic power devices composed of wide-bandgap materials, including GaN HEM transistors & Diamond PiN Diodes, using Synopsys Sentaurus to generate mesh files
- Simulated electrical device characteristics by writing Lisp-like Sentaurus Device TCAD scripts to analyze efficacy of designs
- Led the development of a visual app to optimize the maximum number of dies on a wafer through a proprietary algorithm with advanced features not publicly implemented elsewhere

EDUCATION

University of Illinois Urbana-Champaign
B.S. in Computer Engineering

GPA: 3.98/4.00, December 2022

Dean's List, High Honors
Cognitive Neuroscience, A.I., Applied ML, Calculus III, Differential Equations, Linear Algebra, Discrete Maths, Analog Signal Processing, Quantum Physics, Data Structures, Semiconductor Electronics, Algorithms, Probability

AWARDS & HONORS

Dobberpuhl Student Award 2022
$2,000

CHP Research Support Grant 2021
$2,000

Illinois Eng. Achievement Scholarship
$1,000 2021

Chao, Bei Tse & May Award 2020
$6,000

QUR Research Grant 2020
$2,500

Engineering Visionary Scholarship 2019
$24,000

AIM High Engineering Grant 2019
$20,000

Chancellor's Scholar 2019
$4,000

ACT Score of 36-36-36-36 2019

SKILLS

Python (Pandas, SK-Learn, Pytorch, Numpy, Matplotlib, XGBoost, Catboost)

Cloud (Databricks, MLFlow, AutoML, Apache Spark, AWS S3, AWS Sagemaker, AWS Lambda)

Analytics (Network & Survival Analytics, SQL, Random Forest, Timeseries, SVM, PCA, Regression, KNN, Transfer & Deep Learning, Transformers)