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# Neel Kovelamudi

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## EDUCATION

### University of California, Berkeley

Master of Engineering, Electrical Engineering and Computer Science (GPA: 3.88)

*Concentration: Data Science and Systems*

*Capstone: Building Knowledge Graphs via Deep Learning for DeFi Applications (Project Manager)*

*Graduation Date: May 2022*

### Johns Hopkins University

Bachelor of Science, Electrical Engineering (GPA: 3.95)

*Graduation Date: May 2020*

## SKILLS

- Python, Java, C++, MySQL
- Hive, Hadoop, Spark, AWS, CUDA, Docker, Kubernetes
- Airflow, FastAPI, Redis, RabbitMQ, gRPC
- Numpy, Pandas, Seaborn, Matplotlib, Scikit-Learn, Keras, TensorFlow, PyTorch
- DevOps, MLOps, Agile, GitLab CI/CD, DVC, Tableau, Jira, Confluence
- Project Management, Consulting, Mandarin

## EXPERIENCE

### Machine Learning Engineer Intern

May 2021 - August 2021

*Seagate*

- Built deployment infrastructure for time series models using Airflow, FastAPI, Redis, RabbitMQ, TF Serving, gRPC, AWS, Docker, and Kubernetes
- Managed MLOps project workflow using GitLab CI/CD and DVC

### Data Science Intern

January 2021 - May 2021

*Micron*

- Led yield analysis team in use of PyTorch and TensorFlow to build deep learning models for smart manufacturing
- Wrote Hive queries to extract and analyze data from Hadoop cluster
- Implemented Random Forest, XGBoost, and AdaBoost models with optimization using GridSearchCV

### DRC Software Intern

September 2020 - December 2020

*GlobalFoundries*

- Designed multithreaded application using Python, Perl, and MySQL to automate design rule check (DRC) parsing
- Optimized chip test case generation using NLP methods and K-means clustering algorithm

### Machine Learning Engineer, Project Manager

August 2019 - May 2020

*Johns Hopkins University Applied Physics Laboratory (APL)*

- Managed year-long Agile project involving computer vision, machine learning, data science, robotics, and microbiology
- Used PyTorch with CUDA to implement Faster R-CNN for object detection on real-time camera data