NEHA HUDAIT

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Education

UC Berkeley - Management, Entrepreneurship, & Technology Program **Expected May 2022**

B.S. Electrical Engineering & Computer Science, B.S. Business Administration

Relevant Coursework:

- Machine Learning
- Artificial Intelligence
- Data Structures
- Advanced Algorithms
- Data Engineering and Design
- Machine Structures & Computer Architecture
- Principles and Techniques of Data Science
- Project Management for Data Science
- Entrepreneurial Leadership in a Technical World

Experience

Technical Program Manager Intern, NVIDIA **August 2021 - November 2021**

- Developed and owned risk identification, risk mitigation, bug triage, status tracking, and adoption pipeline for the Product Security, Software Security Operations team to increase engineering efficiency by 200%
- Developed, documented, and drove the adoption of Morpheus, a centralized security log processing and inference full-stack platform, across 4 internal teams and road mapped the adoption of the platform across 15 additional teams by mid-2022
- Tracked 30 key performance indicators for Morpheus, analyzed customer feedback, and defined roadmap for the next release

Software Engineering Intern, Facebook **May 2021 - August 2021**

- Designed and developed infrastructure for a machine learning system and model which detected 20,000 privacy violations with 99.4% accuracy as part of the People Data Privacy team
- Trained three-class decision tree model daily with approximately 50,000 samples, 25 feature groups, and 100+ features and encoded data to make tables stored in the cloud 80% smaller with zero loss
- Onboarded and trained 3 new engineers to query ground truth labels, resulting in over 500 previously unidentified violations

Software Engineering Intern, NVIDIA **January 2021 - May 2021**

- Designed and developed Morpheus, a centralized security log processing and inference full-stack platform to host an optimized AI pipeline which: inspects all IP traffic across data centers, detects leaked sensitive data, and addresses suspected phishing attempts instantaneously as part of the Product Security Team
- Identified and captured 10,000+ previously unidentifiable threats and vulnerabilities and increased performance by 35%
- Redefined roadmaps for upcoming beta releases by reprioritizing the direction of the product from consumer to business-facing

Technical Product Manager, UC Berkeley Divison of Data Science **December 2020 - May 2021**

- Led end-to-end development of 7 major user-facing support and guidance features for Otter Grader, an open-source autograder
- Developed a dashboard to track 35 key performance indicators to measure overall progress towards product goals and long-term objectives, leading to scale Otter Grader to 20 UC Berkeley data science courses and 50 universities worldwide
- Streamlined and iterated user adoption cycle by reducing overall customer onboarding time by 75%

Technical Product Management Intern, SAP Ariba **June 2020 - August 2020**

- Developed new features for Search 3.0, a tool to streamline sourcing and procurement as part of the Platform Search team
- Implemented 20 machine learning and data-driven based features that analyze user intent and provide tailored results
- Created an automated algorithm and dashboard to provide real-time key performance indicators for 30,000+ daily searches

Projects

AI-Enabled Video Prediction for Cardiovascular Disease Detection and Prevention

- Improved AI-enabled detection and prevention techniques for cardiovascular disease to predict frames of ultra-sound videos
- Utilized Keras to explore the following frame-prediction approaches:
    - Implemented an LSTM (Long Short Term Memory) Model to predict one frame from the prior frame
    - Implemented a CNN (Convolutional Neural Net) which predicts a particular video frame from the thumbnail given

Deep Convolutional Generative Adversarial Network (DCGAN) for Breast Cancer Image Augmentation

- Improved Image Accuracy for Medical Classification of Breast Cancer Tumors through training a DCGAN
- Generated 10,204 synthetic images over 300 epochs and two classes to generate a 94% accuracy, a 15% increase

Skills

Languages/Packages: Python, Java, C, Javascript, HTML, CSS, SQL, Angular.js, Hack, Thrift, TensorFlow, Pandas, Numpy, Keras
Platform/Tools: Jira, Agile, AWS, Kubernetes, Photoshop, Illustrator, Indesign, XD, Apache Kafka/Spark, ArcGIS, Github