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Education

Georgia Institute of Technology

Atlanta, Georgia

B.S. IN COMPUTER SCIENCE - ZELL MILLER SCHOLAR + DEANS LIST

Grad May 2023

Georgia Institute of Technology

Atlanta, Georgia

M.S. IN COMPUTER SCIENCE

Grad May 2024

Experience

Boston Consulting Group

Los Angeles, California

Al Software Engineering Intern June 2023 - August 2023

Construct systems, platforms, and analytic models for decision analysis - leveraging AI expertise to generate valuable insights for BCG X clients.

CertiK New York City, New York

PLATFORM ENGINEERING INTERN

September 2022 - December 2022

- Developed automated pipeline for creating & updating monitors of current data platform using Github Actions/Terraform. Automated migration of 320+ existing agents/monitors to infra-as-code (MonteCarlo/Datadog/Github Actions/Terraform)
- · Automated and secured 15+ classifier models using Databricks/MLflow/Snowflake, implementing data encryption, access controls, and secure logging with Datadog integration.
- · Investigated economic impact and proposed optimization for high consumption or high runtime Snowpipe loads & Snowflake queries
- Deployed Terraform-based infrastructure to dev, staging, & live environments using Github Actions CI/CD pipelines for public and internal APIs and set up logging and monitoring (ECS, S3, Docker, Airflow, Terraform)
- · Policy creation, environment setup, & IAM for ML Infrastructure and data pipelines (Databricks, Github, Snowflake)

Equifax May 2022 - August 2022

SOFTWARE ENGINEERING INTERN

Atlanta, Georgia

- Endpoint development and UI design of B2B portal using Springboot and Canva for the MVP and beyond of a new project (Java/BigQuery)
- Developed transformations to process novel data format in an active data pipeline, using data protection best practices(Dataflow/Apache Beam)
- Refactor & simplify logic of existing transformations for Beam ETL pipeline processing millions of records (Java/Apache Beam/PostgreSQL)
- Performed data exploration on support case dataset, reducing the feature set from 100+ columns to 13 key attributes (Python/Pandas)

Research

Georgia Tech AI-Based Research and Discovery Lab

Atlanta, Georgia

DEVELOPER INTERN

August 2021 - May 2022

- Developed full-stack app using Azure Blob Storage & Node. is serving REST API to allow categorization of CT Scans by radiologists at Emory University
- Test & log metrics for ML models trained on novel data to allow for categorization, localization, and gradation of different conditions lung conditions

RESEARCH INTERN January 2021 - May 2021

- Developed time-series model to study spatiotemporal factors influencing COVID-19 spread; utilized time-series cross-validation for optimization
- Reviewed recent research papers on COVID-19 transmission to identify potential new features, aiming to augment datasets and enhance the training of our predictive models, compare predictive capacity among multiple models types, & present findings.

Projects

PHISHING DETECTOR | PYTHON, PYTORCH, NLTK, SCIKIT-LEARN, REST

Analyze email content and metadata w/NLTK, providing real-time flagging of suspicious emails and alerting users to potential phishing attempts

ENSEMBLE LEARNING TRADING ALGORITHM | PYTORCH, SCIKIT-LEARN, REST

• Ensembles multiple supervised methods to maximize profit on historical trading data. Relevant features & stock groupings using K-Means w/DTW

TECHNOTE | MONGODB, EXPRESS.JS, VUE.JS, NODE.JS, PASSPORT.JS, GOOGLE CLOUD FUNCTIONS

• Knowledge management tool helping GaTech students organize class notes & files on web scraped class & professor data. Supports a user-specific dynamically updated autocomplete feature and employs encryption and access controls to ensure data confidentiality and privacy.

Skills

Languages & Frameworks: Python, Java, C++, PyTorch, pandas, PySpark, Springboot, Apache Beam, Express.js, Django, SQL, scikit-learn, TCP/IP

Dev Tools & Libraries: Git, AWS(ECS,S3), AzureML, Postman, Docker, Postgresql, CI/CD, Airflow, Databricks, MLflow, Terraform, Bash, Linux

Coursework: Data Structures Algorithms, Algorithmic Analysis, Computer Organization, Operating Systems, Software Design, Databases, Systems & Networks, Statistics, (MS) Machine Learning, (MS) Computer Vision - Enrolled: (MS) Network Security, (MS) High Performance Computing, (MS) Natural Language

Certifications: Google Analytics Individual, Google Cloud Digital Leader