NALIN MEHRA

Gainesville, FL · nalinm01@gmail.com · (813) 420-0085 · www.nalinmehra.com

EDUCATION

University of Florida   Gainesville, FL
GPA: 3.89 / B.S. in Computer Science   Expected May 2023
Involvement: Google Developer Student Club, Competitive   *National Merit Scholar*
Programming Club, ACM, Software Engineering Club

SKILLS

Languages: Python, C++, PHP (Hack), Golang, JavaScript, Java, SQL, C#, Lua
Technologies: React, GraphQL, Flask, Apache Thrift, Hive, Spark, Elasticsearch, AWS, Linux CLI, Docker, Git

EXPERIENCE

Meta (formerly Facebook)   Seattle, WA
Software Engineering Intern - *AI Infrastructure (Privacy Enforcement)*   May 2022 – August 2022
- Launched an internal tool for adding privacy policy annotations on Feature Store feature groups to meet privacy compliance. Estimated savings of 4500 engineering hours (90% improvement from existing process).
- Designed schema for XDB (MySQL) backed annotation entities accessed by new GraphQL endpoint.
- Deployed daily pipeline to annotate feature group policies in production and update feature group metadata.
- Architected and tested Python API to ingest feature groups and automatically infer and annotate privacy policy by analyzing feature lineage data flow from various AI Metadata data sources.
- Improved Feature Store's C++ computation engine to better verify privacy policy when indexing features.

American Express   Phoenix, AZ
Software Engineering Intern - *Enterprise Data Architecture and Artificial Intelligence*   June 2021 – August 2021
- Developed and deployed Random Forest (RF) model for the Feature Store team to gain additional data insights for internal auto-feature engineering tool and improve AmEx data science pipeline.
- Populated and queried Elasticsearch database to store and retrieve data using Flask REST API.
- Trained and tuned RF hyper-parameters to achieve 93% model accuracy using cross-validation techniques.
- Created user-friendly portal using React to provide feedback for reinforcement learning on NLP model.
- Performed unit, functional, and integration testing for backend API using Postman and Python.

Raytheon Technologies   Dallas, TX
Computer Engineering Intern - *Radar Processing and Testing*   June 2020 – August 2020
- Developed firmware for and tested radar processing cards used in F-15 fighter jet radar system using Lua.
- Reduced Circuit Card Assembly (CCA) test station operation time ~10% by sourcing FPGA card control data with TCL scripting to automate clock frequency verification test.
- Utilized C# to program, test, and verify functionality for the Optical Controller Module (OCM).
- Developed C# GUI to interact with and display information from the OCM.

UF Dream Team Engineering   Gainesville, FL
EPIC App Developer   January 2022 – Present
- Co-developed Flutter mobile app to allow patients to share vital signs data with their doctor in collaboration with UF Shands Hospital. Adhered to HIPAA compliance standards.
- Improved input screen by adding user-friendly selection of vitals and measurements to record.
- Migrated existing app codebase from Flutter 1.0 to Flutter 2.0, fixing null safety and type check issues.

PERSONAL PROJECTS

Newtts - Notes Scanner with Audio Review   Jan 2022 – May 2022
- Co-developed Flutter iOS/Android app to take pictures and read handwritten notes using Google ML Kit.
- Implemented file system solution, various import formats, and notes viewer for manual review.
- Developed notes audio playback feature for improved review and user convenience.

Sentimental Critics - Natural Language Processing Project   April 2021
- Developed a new rating system for restaurants using sentiment analysis.
- Utilized Selenium and BeautifulSoup4 to scrape google reviews for training and testing data of model.
- Trained and tested machine learning model (Naive Bayes) to calculate a rating from written reviews.

AWARDS

Herbert Wertheim College of Engineering Dean's List   Fall 2019 – Spring 2022
Awarded President's Honor Roll or Dean's List at the UF College of Engineering.

Florida Benaquisto Scholarship Recipient   August 2019 – Present
Full-ride merit based 4 year scholarship to the University of Florida.