NALIN MEHRA

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

EDUCATION

University of Florida (UF) - Gainesville, FL

B.S. in Computer Science

Expected May 2023 GPA: 3.89/4.00

- Honors: Dean's List, Benaquisto Scholarship (full-ride), National Merit Scholar
- Relevant Coursework: OS, Data Structures, Databases, Natural Language Processing, Applied ML
- Involvement: Google Developer Student Club, Competitive Programming, ACM, Open Source Club

SKILLS

Languages: Python, C++, PHP (Hack), Go, JavaScript/TypeScript, HTML5, CSS3, Java, SQL Technologies: React, GraphQL, Flask, Git, Apache Thrift, Hive, Spark, Elasticsearch, AWS, Linux, Docker

EXPERIENCE

Meta (formerly Facebook)

Seattle, WA

Software Engineering Intern - AI Infrastructure (Privacy Enforcement)

May 2022 - August 2022

- Launched internal tool with **React/Hack** for adding privacy policy annotations on **Feature Store** feature groups to meet privacy compliance. Gained **90% improvement** from existing process.
- Designed schema for XDB (MySQL) backed annotation entities accessed by new GraphQL endpoint.
- Architected **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.
- Expanded Feature Store's C++ computation engine pipeline to ensure privacy policy during indexing.
- Composed project design documentation and wrote tests to achieve 90%+ test coverage.

American Express

Phoenix, AZ

Software Engineering Intern - Enterprise Data Architecture and Artificial Intelligence
June 2021 - August 2021

- Trained 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.
- Achieved 93% model accuracy by tuning RF hyper-parameters using cross-validation techniques.
- Created fullstack portal using **React/Redux** to provide feedback for reinforcement learning.
- 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 test station operation time by 10% for Circuit Card Assembly (CCA) by sourcing FPGA card control data with TCL scripting to automate clock frequency verification test.
- ullet Programmed and verified functionality for the **Optical Controller Module** (OCM) using ${f C}\#$.
- Engineered .NET GUI to interact with and display information from the OCM.

PROJECTS

UF Dream Team Engineering

Flutter/Dart

- Created 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.
- Redesigned input screen for patients to record vitals and measurements.
- Migrated codebase from Flutter 1.0 to Flutter 2.0, fixing null safety and type check issues.

Sentimental Critics - Natural Language Processing Project

Python, C++

- Established a new rating system for local restaurants using sentiment analysis in Python.
- Formed dataset by scraping google reviews using Pandas, Numpy, Selenium, and BeautifulSoup4.
- Trained and tested machine learning model (Naive Bayes) to calculate a rating from written reviews.

Newtts - Notes Scanner with Audio Review

Flutter/Dart

- Built iOS/Android app to take pictures and read handwritten notes using Google ML Kit.
- Implemented file system solution, various import formats, and notes viewer features.
- Developed notes audio playback feature for improved review and user convenience.