HAN DANIEL LEE (US CITIZEN)

https://github.com/hlee18lee46 https://www.linkedin.com/in/hanknowstech

EDUCATION

- M.S. Computer Science (ML Specialization) GPA: 4.0 Georgia Institute of Technology (Jan 2024 Dec 2025)
- B.S. Computer Science University of Florida (Jan 2020 Dec 2023)

EXPERIENCE

Java Developer (Seasonal Temp)

Hyundai Glovis

Nov 2024 - July 2025

- Maintained and worked on the Java Spring Back-end of the Full-stack web application (Sencha Ext JS frontend) used at
 Vehicle Processing Center intended for Hyundai Vehicles. The web application is used by operators at Vehicle Processing
 center to track and process the vehicle processing of Hyundai vehicles, which include installation of undercover, loading
 into trucks and shipping.
- Inspect and maintain the SQL Procedures (PL SQL) and handle data issue that arise during the operation of the mentioned process-tracking web application.

Software Engineer Intern

Boeing Intelligence & Analytics

June 2024 - July 2024

- Worked on a **GenAI** prototype with AWS GenAI Innovation Center to enable natural language questions on cyber data, providing well-formed answers using **FastAPI** backend, **Qdrant vector database**, text embedding model, and **AWS Bedrock**, configured for Retrieval Augmented Generation (RAG).
- Implemented **agent** using **langchain** framework that was able to choose which tool based on users' requests. **Fine-tuned** agent prompts and tool description to **invoke** the agent to use the correct tool.
- Built **Arrakis Tools** that Agent can use 1) to check if the Arrakis dataset is uploadble 2) can upload if so 3) delete the attached files after upload 4) delete a file attached 5) delete all the files that are attached 6) list the files attached 7) count how many files are in the Arrakis dataset.
- Built Front-end features of file attach, delete buttons as well as the file attachment message that gets updated periodically showing how many files the users attached using React hooks, useEffect. Implemented safeguarding features of file clean deletion upon uploading to Arrakis dataset and upon session closeout, or upon close of the window using Python libraries asyncio, atexit, shutil, datetime, timedelta and React framework useState, useRef, useEffect, axios.
- Implemented automated unit testing of Agent and tools using a mock class with Python libraries, pytest and unittest.

Software Engineer

LSP LLC(Assigned at Ultium Cells)

Sept 2023 - May 2024

- Improvement of **insulation overlay edge detection C++ MFC** using **openCV**. Designed a high-speed image processing function using memcpy function and optimized a **multi-threading** procedure by building a class that uses a pool of **thread** to optimize usage of threads.
- Mentored and provided help session to a junior developer (2 developers, 1 manager/company owner)

AWARDS

- Peraton Award at 2024 HackPSU (Hackathon @Penn State University), Best React App "Community SOS"
- Grand Prize (1st Overall) at Kent Hack Enough 2024 (Hackathon @Kent State University) "Empty The Fridge"
- (Solo) 2nd Café Cultura Challenge at Shellhacks 2024 (@ Florida International University) "Latinnect"

PROJECT (https://hlee18lee46.github.io/my-react-app/)

Russian House Predictor (Python, PyTorch, Scikit-learn, Streamlit, Sqlite)

Worked as a lead developer to preprocess the data using Sqlite and sql queries and numpy, also built **linear regression model** and **random forest model**. Calculated the distance of each house to the center of each city and used it as one more predictor. Reduced the **MAE** to the 7% of the mean price of houses.

"Latinnect" – (Swift, Supabase) (Solo)

Built an iOS application using Swift and Supabase. The application is a digital marketplace intended for Latine community. CRUD operations using Supabase to display the product and vendor data and upload a product data that user wants to sell.

LANGUAGES, FRAMEWORKS, SOFTWARE AND OTHER TECHNOLOGIES

- Languages: Swift, Python; C++; C; C#; Kotlin; Java; html; CSS; JavaScript; Typescript
- Frameworks: React.JS; Next JS; Angular; Flask; Django, Next JS
- Libraries & Database: PySpark; OpenCV; Streamlit; Oracle SQL; mySQL; SQLite; Supabase
- Machine Learning: ML Azure; Tensorflow; Keras; PyTorch; scikit-learn; MLRose
- Cloud & other Tools: AWS; EC2; S3; Lambda; Ubuntu; Git; GitHub; IntelliJ; Docker