

# Darin Peries

14 Fosters CT, Sugar Land TX, 77479 | 713-417-5330 | darin.peries@gmail.com | www.darinperies.com | www.linkedin.com/in/darinperies/

## Education

### Texas A&M University, College Station, Texas

Junior Computer Engineering, Brown Engineering Honors, GPA 3.8. Graduating May 2025.

### Stephen F. Austin High School, Sugar Land, TX

Graduated Summa Cum Laude (August 2017-June 2021)

## Skills

**Programming Languages:** Java, C++, Typescript, Python

**Frameworks and libraries:** Angular, React, Spring Boot, SKLearn, matplotlib, PIL.

**Technologies:** Docker, AWS IOT, Make file, Apache Kafka, Mongo dB, Linux, git

**Hardware:** Raspberry PI

## Work Experience

### Ansys

Semiconductor Research and Development intern

May 2023-August 2023

- Created a visualization tool to generate the different metal and silicon layers of a chip as a 2d image using python PIL and matplotlib.
- Updated a machine learning algorithm to calculate circuit density using the SKLearn library. This created a speed up of 30% in runtime.
- Created an incremental learning algorithm to enhance the accuracy of the density calculation.

### Hewlett Packard Enterprise

June 2022-August 2022

Software Engineering Intern, Full stack Developer

- Migrated an existing application to a microservice based architecture. Created the backend microservices using Java and MongoDB. Used React for the frontend
- The project was done to solve a scalability issue the team was facing with their existing application. Ran 70% faster than the previous application.
- Tested the created API with SwaggerUI and Postman and containerized it using Docker
- Following the completion of the intern project, the team had me work on a prototype user interface for one of their upcoming projects using Angular.

### Kumon North America

July 2019-July 2021

Math and Reading tutor

- Tutored children ranging from kindergarten to high school
- Developed efficient communication skills to talk with people of different ages and backgrounds

## Projects

### Data Structures and Algorithms Class Project

April 2022-May 2022

- Created a class in C++ to instantiate a graph data structure from user input
- Ran Dijkstra's and Prim's algorithm as optional functions
- Used a Priority Queue and an adjacency list to have an efficient runtime

[https://github.com/dperry17/221\\_project/](https://github.com/dperry17/221_project/)

### AWS IOT Temperature and Humidity Tracking project

June 2021-August 2021

- Developed programs to collect temperature and humidity data of my plants to prolong their life
- Connected sensors to a Raspberry PI device
- Sent data to AWS cloud using MQTT protocol and perform visual trending and predictive analysis using python libraries such as NumPy and pandas

[https://github.com/dperry17/temperature\\_and\\_humidity\\_project](https://github.com/dperry17/temperature_and_humidity_project)

## Organizations/Leadership

### Texas A&M Institute for the Development and Education of Asian American Leaders (IDEAAL)

Treasurer

August 2022-present

- Kept track of the organization's funds
- Organized profit shares to support local businesses as well as other fundraising events
- Raised \$1,000 for a local business