

# SON TRUNG PHAN

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## **EDUCATION: Southern Methodist University**

Bachelor of Science in Computer Science  
Bachelor of Science in Data Science  
Minor in Statistic

Dallas, TX  
Grad Date: MAY 2025  
Overall GPA: 3.5

**SKILLS:** Microsoft Office, AutoCAD, Object Oriented Programming, Data Structure & Algorithm, Statistical Methods for Engineering and Applied Scientists, Applied Statistic, Machine Learning in Python, Categorical Data Analysis

**PROGRAMMING LANGUAGES:** Java, C++, Kotlin, RStudio, Python, R Markdown, Tableau, HTML, JavaScript, CSS, SQL

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## **PROFESSIONAL EXPERIENCE:**

### **BAC HA SOFTWARE | Mobile Development Intern**

MAY 2022 – AUG 2022

- Developed mobile applications using Kotlin and machine learning kit to recognize objects in photos.
- Integrated the app with a gallery to store and manage object images, with 95% accuracy in recognizing 1,000+ daily objects.
- Implemented 3D modeling algorithms, capturing images from multiple angles. Resulted in a 20% reduction in processing time for creating virtual 3D models.

### **VIET THAI INTERNATIONAL GROUP | Market Research & Data Analysis Intern**

MAY 2020 – OCT 2020

- Conducted a research study in accordance with the scientific research standards on three global chains in the coffee industry.
  - Performed SWOT and Porter's 5 Forces analyses on the client and competitors.
  - Collaborated with two consultants to make recommendations on the implementation of the customer gratitude program based on the conducted research, changed the direction of product to bring more benefits to customers.
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## **PROJECT:**

### **SEARCH ENGINE**

FALL 2022

*Build a search engine for a large collection of financial news article with the dataset of more than 300,000 articles*

- Developed a high-performance C++ search engine for 300,000+ financial news articles, achieving 40% faster search speeds (under 50 milliseconds/query) using AVL tree.
- Optimized data storage with JSON format, reducing retrieval time by 30% and ensuring flexibility for seamless access and future scalability.
- Collaborated in a team to design and integrate the search engine, improving data retrieval speed and accuracy. Implemented persistent data structures for enhanced integrity and consistency.

### **SENTIMENTAL CLASSIFICATION**

FALL 2022

*Build a classification engine to determine which tweet has a negative or a positive sentiment*

- Developed a C++ sentiment classification system for tweets with 92% accuracy, categorizing sentiments as positive, negative, or neutral.
  - Trained the system using a vast dataset of 400,000 tweets, ensuring robustness and reliability in sentiment analysis.
  - Optimized the system's performance, leading to a 25% increase in accuracy during real-time sentiment analysis, significantly improving the precision of results.
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## **LEADERSHIP EXPERIENCE:**

### **GREEN TRIP VIETNAM | Project Coordinator**

MAY 2019 – Present

- Organized campaigns to promote the mission and values of Green Trips Vietnam to friends and family members, attracting more than 30 volunteers to pick up trash from beaches
- Collected a total of 395 trash bags for a clean-up project with over 200 volunteers from 5 countries · Acted as Young International Student Ambassador, assisting in volunteer recruitment for “Phuoc Hai Coastal Painting” Project held in Ba Ria–Vung Tau in 09/2020; promoted as Leader of a five-member team to draw 10m long embankment