VANESSA LE

New York | (713) 298-1643 | mopositive@icloud.com | WEB in

EDUCATION

TEXAS A&M UNIVERSITY, COLLEGE STATION, TX
Bachelor of Science in Computer Engineering (Honors) - (3.95/4.0)   DEC 2023
Bachelor+ Program in Networking & Cybersecurity   **Summer 2022**

Relevant Coursework: Data Structures & Algorithms, Discrete Structures, Operating System, Computer Architecture, Machine Learning, Cloud Computing, Networking Security, Computer Graphics, Competitive Programming

SKILLS

Software: C++, Python, Java, Javascript, HTML/CSS, React, Spring, SQL, Docker, Linux, Bash, Unit Tests, AWS, Git
Hardware: Circuit Prototyping & Simulation, Logics Simulation through Verilog & ZYBO Z7-10 Board, Raspberry Pi
Other: Splunk, New Relic, Cisco Packet Tracer, Wireshark, Domain-Driven Design (DDD)

PROFESSIONAL EXPERIENCE

CAPITAL ONE | ASSOCIATE SOFTWARE ENGINEER | AIML   FEB 2024 – PRESENT
- Built the core foundation of a Feature Store SDK to streamline feature storage and registration for data scientists
  - Led the implementation of materializing Spark, Pandas & Polars features across multiple storage sinks
- Developed customizable Kubeflow components as part of data pipelines to read, transform and store features
  - Significantly optimized start time, enabling data scientists to focus solely on data engineering tasks
- Integrated Spunk into systems to enhance data monitoring, reducing production support effort by 20%

CAPITAL ONE | FULL STACK INTERN | CAR TECH   JUNE – AUG 2023
- Built car accessory webpages using LitElement within the Auto Navigation platform
- Built RESTful APIs using Java SpringBoot to allow data flow between the webpages and database

PWC | PM, QA & DEV INTERN | RISK PRODUCTS ($40M PRODUCT)   JUNE – AUG 2022
- Oversaw the release of two user stories to client systems
  - Groomed with stakeholders, refined acceptance criteria, communicated with the dev team and accepted stories
- Tested stories for QA by writing test cases and operating in different client environments and databases
- Fixed Java APIs to accommodate new changes in databases and wrote HTTP requests for complex data querying

L3 HARRIS | SOFTWARE ENGINEER CO-OP | INTEGRATED MISSION SYSTEM   MAY – DEC 2021
- Built an interactive GUI map in Java on top of the NASA WorldWind engine to map position data from aircrafts and radar systems; deployed to production in Docker containers
  - Gained recognition from senior leadership for quality product delivery
- Refactored legacy code in C++ for IRAD Automatic Radar Scanning System to accommodate new hardware designs

NASA L'SPACE MISSION CONCEPT ACADEMY | LEAD SCIENTIST   MAY – AUG 2020
- Collaborated in a virtual, interdisciplinary team of 12 to design a mission concept on Mars
- Researched the geology of Mars to assess its habitability and biosignature preservation potential
- Produced an intensive Preliminary Design Review (PDR) detailing the mission

INVOLVEMENT

TAMUHACK   NOV 2021 – MAY 2023
Director - Software Development Team
- Wrote API end points in Javascript to allow for the modification of hackathon events from the admin TAMUhack UI
- Designed and implemented the DynamoDB database for managing hackathon events
- Helped organize one of the largest student-run hackathon in Texas

SOCIETY OF WOMEN ENGINEERS   SEP 2019 – MAY 2021
SWElites – Education Committee Co-Counselor
- Oversaw a group of 10 freshmen in the coordination of academic workshops and STEM related events

SWE Outreach – Engage Committee
- Taught a class of 10-15 middle school students about the applications of STEM through the use of robotic legos