VANESSA LE

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

EDUCATION

TEXAS A&M UNIVERSITY, COLLEGE STATION, TX
Bachelor of Science in Computer Engineering (Honors) - (3.97/4.0)   DEC 2023
Bachelor+ Program in Networking & Cybersecurity   **Summer 2022**

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

SKILLS

Software: C++, Java, Python, Golang, Javascript, HTML/CSS, React JS, Lit-Element, SQL, Docker, Linux, Bash, AWS, Git
Hardware: Circuit Prototyping & Simulation, Logics Simulation through Verilog & ZYBO Z7-10 Board, Raspberry Pi
Other: Jira, Scum, Figma, Confluence, Cisco Packet Tracer, Wireshark

PROFESSIONAL EXPERIENCE

CAPITAL ONE | FULL STACK INTERN   JUNE – AUG 2023
- Utilized Lit-Element to build an interactive MFE for selecting car accessories within the Auto Navigation platform
- Implemented RESTful APIs using Java Spring Boot to allow dynamic car data population in UI from database

PWC | PM, QA & DEV INTERN ON RISK PRODUCTS ($40M PRODUCT)   JUNE – AUG 2022
- Oversaw the release of two user stories to the client system
  ○ Groomed with stakeholders, refined acceptance criteria, communicated with Scrum team and accepted stories
- Tested stories for QA by writing test cases and operating in different client environments and databases
- Fixed Java APIs to set new columns in databases from UI and reduce the number of HTTP requests for data querying

L3 HARRIS TECHNOLOGIES INC. | SOFTWARE ENGINEER CO-OP   MAY – DEC 2021
- Developed an interactive GUI in Java by extending NASA WorldWind to map live position data from airplanes 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
- Wrote unit and end-to-end tests to verify product integrity

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 to 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

AWARDS

BIGGEST PIVOT AWARD IN 3 DAY STARTUP   FALL, 2020
- Transformed the idea of energy neutrality into a consulting firm specialized in improving energy efficiency in homes

1ST PLACE IN TEXAS A&M REGIONAL ENGINEERING CONFERENCE   SPRING, 2020
- Designed a window protective panel as a bio-inspired solution for severe glass breakage caused by hurricanes