

VANESSA LE

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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

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