

# Katelyn M. L. Nguyen

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## EDUCATION

**Texas A&M University** | College Station, TX  
Bachelor of Science in Computer Engineering | Minor in Mathematics

May 2025  
GPA: 3.8

## AWARDS AND SKILLS

Fall 2023 and Spring 2024 Dean's Honor Roll recipient

C++, C#, Python, Java, XAML, SQL, Verilog, ARMv8, Cadence Virtuoso, Autodesk Inventor, LTSPICE, Git, Azure DevOps, Canva

## WORK EXPERIENCE

**Hewlett Packard Inc.** | Firmware Engineering Intern | Spring, TX May 2024 – Aug 2024

- Created a command-line tool for security audit compliance amongst CI/CD value streams using Python, Jinja, HTML, and CSS
- Increased security auditing in DevSecOps workflows by initiating SSDL discussions and building foundation for the process
- Evaluated team DevSecOps Maturity Model Competencies, and set long-term goals on how to improve process maturity levels
- Performed in an agile development methodology that emphasized stakeholder collaboration and continuous improvement
- Utilized Azure DevOps Boards and Pipelines for task division and assignment, team transparency, and test build scheduling
- Created a visual presentation of the internship project and presented to the organization (100+ employees)
- Involved with HP culture by actively participating in the Women and Asian Pacific Business Resource Group events
- Implemented workplace engagement initiatives to foster a collaborative and amicable work environment (intra-team tournaments)

**MS Directional** | Engineering Summer Intern | Software Engineering Contractor | Katy, TX May 2023 – May 2024

- Worked in a mid-sized directional drilling service company with major clients in onshore oil and gas industry
- Simulated compression algorithms for gamma data using Python to improve data storage, transmission speed, and visualization
- Improved drilling efficiency by revising C language firmware for the DSP within Measurement While Drilling (MWD) tools
- Learned C#, XAML, and Windows Presentation Foundation (WPF) to engineer a licensing manager for an MWD test application
- Developed inventory management app and database for build tool dependencies, including existing CSV inventory data upload
- Designed a cloud-based SQL database using MySQL Workbench for encrypted license and parts inventory management
- Proficiently employed Git and the Tortoise-Git version control interface to manage collaborative software development efforts
- Continued to support team goals as a contractor after a productive summer internship, focusing on database and app development

**Texas A&M Engineering** | Peer Teacher and Student Assistant | College Station, TX Aug 2022 – Dec 2022

- Taught freshmen engineering students Python and Spyder Integrated Development Environment
- Provided open one-on-one mentoring sessions to students seeking additional support outside of lecture

## PROJECTS

**Point of Sales System** Mar 2024 – May 2024

- Participated in a team software development project that utilized Python, React, PostgreSQL, HTML, CSS, and JavaScript
- Engaged in Waterfall and Agile software development strategies and served as a full stack developer on the team of 5
- Utilized RESTful API, static front end, cloud PostgreSQL database back end, and full application documentation

## LEADERSHIP AND EXTRACURRICULARS

**Eta Kappa Nu Academic Honor Society** | Corresponding Secretary | College Station, TX May 2024 – Present

- Promoted academic excellence in Electrical and Computer Engineering disciplines
- Facilitated internal and external organization communications, event planning, and fundraising
- Hosted mentorship and networking opportunities with industry leaders and department faculty members for students
- Promoted philanthropic activities, such as volunteering at local businesses and schools, to serve the community

**Vietnamese Student Association** | Public Relations Marketing Chair | Junior Officer | College Station, TX Aug 2021 – May 2023

- Applied design principles to craft eye-catching social media graphics, promoted events daily, and increased engagement by 10%
- Represented the organization as the media liaison, fostering connections with on-campus organizations and external universities
- Designed, funded, and successfully marketed merchandise to our organization's members and other VSAs in the southern US
- Spearheaded the establishment of a Media Team subdivision to distribute workload more effectively
- Organized and hosted several large-scale social gatherings, each self-funded with over 300 attendees

## SERVICE

**Brazos Valley Food Bank** | Donation Package Assembler | College Station, TX Aug 2021 – May 2024

- Prepared and packaged nonperishable food items, ensuring that community members received support