

MICHAEL NGUYEN

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EDUCATION

Texas A&M University, College of Engineering, College Station, TX

Expected May 2026

Bachelor of Science, Computer Science

GPA: 4.0

Tarrant County College, Fort Worth, TX

August 2022 - June 2024

ORGANIZATIONS

AggieSat Laboratory, *Member*

Jan. 2024-Present

Aggie Coding Club, *Member*

Jan. 2024-Present

Phi Theta Kappa, *Member*

Aug. 2022-Present

SPECIALIZED SKILLS

Programming Languages: Python, C++, C, F' Flight Software, Java, Node Java Script, React, SQL, HTML

Operating Systems: Windows XP, Windows 7, Mac OS 9, Linux (Ubuntu)

ENGINEERING EXPERIENCE

University Nanosatellite Program, NASA, NM UT FL, *Member*

May-Aug. 2023

- Collaborated with a cross-functional team of peers to enhance small satellite design and functionality.
- Applied creativity to optimize the construction and operation of small satellites.
- Worked with students, researchers, and industry experts aligning theory with practical applications.

Space Dynamics Laboratory, Albuquerque, NM, *Systems Engineer Intern*

May-Aug. 2023

- Collaborated with experienced engineers to shape mission design adding to improved space systems engineering.
- Actively applied systems engineering principles to enhance the UNP mission's design.
- Engaged in subsystem workshops, expanding knowledge of nanosatellite development and contributing to project.
- Cultivated project management expertise and coordination skills in a multidisciplinary team.

Jet Propulsion Laboratory, NASA, Logan, UT, *3-day Workshop Attendant*

Aug. 2023

- Applied open-source F' flight software in CubeSats, Small Sats, instruments, and deployable projects.
- Key contributor to successful deployment of F' ensuring robust software through system-level testing.
- Utilized F' features: component architecture, C++ framework, and testing tools.

RESEARCH AND PROJECT EXPERIENCE

DollarSim, TamuHack, *Developer*

Apr-Sep. 2023

- Family finance app using React.js, React Native, Node.js, Express.js, Python, Flask, and MongoDB.
- Implement transactions, fraud detection, and financial education, with a focus on REST API, CRUD, and Auth.
- Promote financial literacy, utilizing a comprehensive tech stack for an engaging and educational user experience.

ASCEND Cube Satellite MC-1, Tarleton State University TexanSat Laboratory, *Research Student*

Apr-Sep. 2023

- Led software subsystem as the primary researcher for neuromorphic imaging algorithms within an 8-person team.
- Conducted in-depth comparisons of star tracking capabilities, exceeding slew rates of 1 deg/s, to enhance satellite.
- Greatly improved attitude determination efficacy through the implementation of advanced imaging algorithms.

Automatic Prescription Dispenser, Google HackDFW, *Git Repo Manager*

Sep. 2022

- Part of a dynamic three-person team at Google HackDFW 2022, a 3-day hackathon for innovative solutions.
- Served as Git repo manager while simultaneously utilizing Java, React, and SQL, integration, and design.
- Contributed to an automated prescription dispensing project with an NFC-based demonstration of solutions.

ADDITIONAL EXPERIENCE

Tarrant County College, Fort Worth, TX, *Math Tutor*

Aug. 2022-Present

Community College Aerospace Scholars (NCAS) Program, NASA, Remote, *Intern*

Jul. 2023-Aug. 2023

Sovereign Lending Group, Plano, TX, *Licensed Mortgage Loan Originator*

Oct. 2021-Apr. 2022

Applebee's, Saginaw, TX, *Team Member - Technology Support and Training*

Jul. 2020-Aug. 2021

Leaps4Lease Party Rental, TX, *Co-founder/owner, Marketing and Outreach*

Apr. 2020-Jun. 2023

Amerishine, TX, *E-Commerce and Online Marketing Manager*

Aug. 2018-May. 2020