

Derek Viet

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EDUCATION

Bachelor of Science in Computer Engineering

Graduating May 2023

Texas A&M University

- Engineering Honors
- Major GPA: 4.00 / Overall GPA: 3.978

TEAM PROJECTS

AGGIE CODING CLUB PROJECTS

StudyBuddy *Backend*

Android mobile application that uses Google Vision API to search for highlighted words online.

- Developed a pixelwise color analysis algorithm in Python for recognizing highlighted words
- Enabled definition search with Cloud Vision OCR and Google Dictionary API

Gesture *Backend*

An Electron.js application that allows users to control their computer using only hand gestures.

- Integrated mediapipe ML model output with pyautogui for camera-based peripheral control in Python
- Created data collection script to record train/test data for a machine learning model using the pynput library

TAMU Diversity Hackathon 2020 *Frontend*

Our interdisciplinary team collaboratively created a game-hosting website that won "Most Practical" in TAMU DivHack 2020.

- Developed a game using JavaScript canvas graphics scripting after learning JavaScript within a few hours

VEX Robotics Odometry *Backend*

- Wrote the base positional tracking code in C++ for the Texas A&M VEX Robotics team's competition robot

INDIVIDUAL PROJECTS

Screen Translator *Electron.js, Node.js, Cloud Vision API, JavaScript, HTML5, CSS3*

An Electron-based desktop application for automatically translating on-screen text.

ST Website *MySQL, Express.js, Pug, Node.js, JavaScript, CSS3*

An Express.js website for NSIS installer distribution utilizing a MySQL database on the backend.

Mythical Mysfits *Python, Docker, Flask, Amazon S3, ECS, EC2, AWS Cloud9, CodeCommit, CodeBuild, CodePipeline*

Creature adoption website developed with Docker containerization and AWS for cloud-based hosting and a CI/CD pipeline.

Would You Rather Battle Bot *Python3, pandas, scikit-learn, discord.py*

A continuously learning Discord bot that uses a neural network to predict your decisions based on user data.

YouTube Livestream Highlighter *Chrome Extensions API, JavaScript, CSS3*

A Google Chrome extension for analyzing and detecting trends in the live chats of YouTube livestreams.

ACTIVITIES

Texas A&M Cybersecurity Club

- Learned fundamental pen testing and cybersecurity skills at Cybersecurity 2020 Winter Bootcamp
 - Reverse/bind shells, remote code execution, enumeration, privilege escalation, malware analysis
 - Network service vulnerabilities, web vulnerabilities, system hardening
- National Cyber League Competitor
 - Practiced skills in digital forensics, program/binary exploitation, log analysis, and open-source intelligence
 - Learned the fundamentals of networking and cryptography

Red Hat Academy

- Completed Red Hat's Linux System Administration I course
 - Linux file system and OS subsystem management; networking configuration; daemon activation/configuration
 - User and group management; permissions configuration; module management; command pipelines and jobs
- Passed the PE124 Red Hat System Administration I Preliminary Exam

Tzu Chi Collegiate Association

- Meal packaging volunteer work at Brazos Valley Food Bank & volunteer trash collection work at Wolf Pen Creek Park
- Participated in discussion meetings centered around human values and self-improvement

SKILLS & INTERESTS

Languages Python, JavaScript, C++, Java, HTML5, CSS3

Frameworks/Tools Node.js, Electron, Red Hat Enterprise Linux, Express.js

Interests Machine learning, indie games, manga, comic books, cybersecurity, digital electronics, robotics, design