Kevin Kuo

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EDUCATION

PENNSYLVANIA STATE UNIVERSITY | B.S in Computer Science — Expected May 2021
College of Engineering | University Park | State College, PA | GPA: 3.1 / 4.0

SKILLS

Python < Preferred > // Java // Node.js // JavaScript // C // C++ // Linux // OpenCV // Tensorflow

WORK EXPERIENCE

LUNAR LION | Software Engineering Intern — May 2018 – present | Research Center C, State College, PA

- Created the communication system for Peroxide Engine Test Stand 2 to send telemetry & command data between Ground Control Station and Guidance, Navigation, & Control subsystem using ZeroMQ.
- Automated testing procedure by adding flight profile functionality and debugged the old UI of Ground Control Station.
- Implemented softkill to prevent hazard by processing thermocouple, pressure transducer and load cell data.
- NASA PA Space Grant Scholarship.

DULANEY HIGH SCHOOL | IT Assistant — Aug 2016 - May 2017 | Lutherville-Timonium, MD

- Provided troubleshooting of any computer problems the school encountered.
- Fixed nonfunctional computer parts and software, reimaged operating systems, and setup router network connections.

PROJECTS AND ACTIVITIES

WALT DISNEY CORPORATE PROJECT TEAM | Nitanny Data Lab — Aug 2017 – Present | State College, PA

- Created retrieval based chatbot with personalities based on Disney movie characters.
- The Chatbot was proposed to the Director and Manager of the Data & Analytics at Walt Disney Animation Studios, which received promising continuation of the project.

STUDENT SPACE PROGRAM LABORATORY — Feb 2017 – Present | State College, PA

- Student Training Program: Wrote the teensyduino code which collected, processed, stored, and transmitted data from the rocket that was launched to 500 meters above sea level. | Feb - Apr
- G-Chaser: a joint mission between NASA, JAXA, and University of Oslo to study solar flares by launching rockets into the ionosphere.
- Worked under the Command and Data Handling Subteam - contributed to the UART Class by debugging and configuring the termios bit flags based on the known hex configuration values. | May - Present

UNMANNED AERIAL SYSTEM | Computer Vision Sub team — Aug 2017 – Present | State College, PA

- Created drone's software to detect targets on the ground given the camera feeds.
- Extracted the relevant areas of interests in the images using OpenCV's saliency algorithm.
- Building Convolution Neural Network to categorize the potential target images.

SOFTWARE MENTOR | VEX Robotics Club Officer — May 2016 – May 2017 | Timonium, Maryland

- Trained 10 programmers in the club and provided troubleshooting of any software issues.
- Taught PID control algorithm, autonomous algorithm, and velocity control system to the members.
- Successfully brought a team to 2017 Vex Robotics World Championship.

PERSONAL PROJECT

FACEBOOK AI CHATBOT | Response Generation & Sentiment Analysis — July 2017 – Present

- Utilizes Messenger's UI to generate conversations with users and perform sentiment analysis on each utterance.
- Using Sequence to Sequence model with attention decoder to generate response based on the previous utterance of the user input.
- The neural network is written in python with Tensorflow using the starter code from Stanford CS 20SI's assignment, and the backend is written in node.js with Facebook Chat API.