Vincent Huang

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Education

Rensselaer Polytechnic Institute (RPI) - Troy, NY   Expected: May 2022
- o *Bachelor of Science:* Computer and Systems Engineering, Computer Science
- o **GPA:** 3.9 / 4.0 (Dean's Honor List)
- o **Coursework:** Data Structures (C++), Algorithms, Computer Architecture and Networks, Principles of Software, Electric Circuits, Computer Components/Operations, Engineering Probability
- o **Honors:** Rensselaer Leadership Award (2018 – present), Rensselaer Archimedean (2018 – present)

Skills

Languages
Proficient: Python, C++, Java, C, Visual Basic
Familiar: JavaScript, HTML, CSS, Bash, LaTex, Scheme, Prolog, Shell Scripts

Technologies/Frameworks
Scrum/Agile, JIRA, Git, Unix, Vim, Nano, OpenCV, NumPy, Pandas, TensorFlow, Node.js

Experience

IBM CodeGraph Undergraduate Researcher   Jan. 2020 – Sep. 2020
- Researched knowledge graph embeddings for their application towards cognitive assistance in dynamic programming languages
- Integrated Bash and Python scripts to download and extract metadata from 120+ Kaggle datasets
- Analyzed accuracy of embeddings using popular programming search queries with similarity search
- Designed a graph learning algorithm using Graph-Bert and Variational Graph Auto-Encoders
- *Co-Author Publication:* "Can Machines Read Manuals Yet?" for Association for the Advancement of Artificial Intelligence, 2021

L3Harris Technologies Software Engineer Intern   Jun. 2020 – Aug. 2020
- Increased internal efficiency by 25 hours per week by developing a VB script to create a company-wide (50,000+) organizational chart for department heads to identify teams that have incorrect time cards
- Worked with a team of 3 interns to develop a VB application to automatically track log errors within the time card system and notifying the corresponding teams/managers
- Utilized the Agile Scrum methodology, participated in daily stand-ups and held constant communication with team members and other teams

Undergraduate Programming/ECSE Teaching Assistant   Aug. 2019 – May 2020
- Taught and graded C++ programs for 40 Data Structure students. Held weekly office hours and contributed to curriculum design
- Supervised 80 Intro to ECSE students in workshops regarding analog/digital circuits and data generation

Projects

Clip It – Natural Language Processing   Nov. 2019
- Developed a Python script to automatically create a highlight reel of a given Twitch video
- Analyzed the rolling median of the chat message frequency and preformed sentimental analysis of messages to determine exciting and high-emotion moments
- Created a website to effectively display highlights of the given Twitch video URL

SMS.net – Internet via SMS   Oct. 2019
- Launched a SMS chatbot to given users reliable internet connection using text messages. Allows users to Google search, load websites, get directions and news, translate sentences, and reverse image search.
- Built a backend server using Flask and sent messages through Twilio and HTTP Get/Post requests
- Utilized regex-based keyword detection to deliver coherent responses based on the user's input
- Received the Social Good Award at HackRU 2019