

# Vincent Huang

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## Education

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### Rensselaer Polytechnic Institute (RPI) - Troy, NY

Expected: May 2022

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

## Skills

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### 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

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### 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

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### 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 performed 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