Shikan (Keting) Chen

Phone: (518) 505-0694 | E-mail: chens24@rpi.edu | GitHub: https://github.com/shikanchen

Education

Rensselaer Polytechnic Institute (RPI), School of Science, *Troy, NY* — Aug. 24, 2017-May 2021 (Expected)
- **B.S. in Computer Science**, GPA: 3.83
- **Dean's Honor List**: Fall 2017, Spring 2018, Summer 2019
- Relevant Coursework: *Introduction to Algorithms, Numerical Computing, Conversational AI, Introduction to AI, Software Design & Documentation, Language & Cognitive Artificial Intelligence Research, Database Systems (IP), Data Mining (IP)*

Technical Skills

Programming Language: Python, C/C++, Java, Web development, AssemblyLanguage
Algorithm and Image Processing: Scikit-learn, Gensim, TensorFlow
Databases and Data Structure: MatLab, SQL, Panda DataFrame   **Misc**: Latex, Git, Linux/Unix

Projects and Researches

Natural Language Processing: Topic Extraction (DARPA UGB Program) | Language and Cognition Artificial Intelligence lab — Jan. 2020-Present
- Conducted data preprocessing, topic/information extraction using the LDA model, and data visualization of COMETH (Computational Ethnography from Metaphors and Polarized Language) data set;
- Developed a metric using Kurtosis to calculate the purity of topics extracted from the LDA model;
- Imported the COVID-19 data set into the topic modeling algorithm for topic extraction.

Smart Contracts: Transmission Protocol | Institute for Data Exploration and Applications — May-Sept. 2019
- Conceptualized the structure of a useful application of smart contracts for the transmission of classified medical data;
- Worked on a decentralized medical record sharing system module using smart contracts on the blockchain platforms, in which medical data is stored in a secure chain, improving the accessibility of information between different hospitals;
- Developed an application that allows doctors and patients to access medical images under security protocols.

IBM Watson AI Research: Development of Multi-modal Dialogue | Cognitive and Immersive Systems Lab — May-Sept. 2019
- Used Watson AI tools to create, debug, and test a multi-modal dialogue to power AI agents to teach a foreign language in an immersive environment;
- Assisted the team in integrating this dialogue with the rest of the project and helped debug the whole project to better motivate to absorb the taught language.

Open Source MCO-Menu-Checker-Online Project — Jan. 2019-Present
Co-founder and Co-leader
- Formed a 12-person development group and assigned roles and responsibilities to each member;
- Cooperated with the school dining halls for real-time menu data transmission. I was mainly responsible for leading back-end development and assisting database construction.

Open Source Collegiate Store Project — Sept. 2018–Jan. 2019
Founder and Group Leader
- Together with eleven members, collected full-dimensional visual data of commodity sales for the school collegiate store, which helped strengthen the construction of its website.

Internships

ZDLink PLM Corporation, *Ningbo, China* — Sept. 2019-Jan. 2020
Developer
- Organized client data sets and created sorting functions for multiple different data structures;
- Helped the team debug multiple modules of the platform.

SCRY.INFO, *Remote Intern* — Nov. 2017-Jan. 2018
Data Analyst | Global Blockchain Index Research
- Synchronized the data for the global blockchain index of selected 12 cryptocurrencies;
- Created a real-time analysis algorithm for the blockchain index in Python.

Huiyou Technology Software Development Lab, *Ningbo, China* — May-Sept. 2017
Web Developer
- Implemented the back-end optimization with Node.js.;
- Set up a polyglot environment for the backend and database.

Personal Projects (GitHub)

- GraphModel: A pathfinder project developed for course Principles of Software
- Container.js: JavaScript extension that allows users to use containers
- Terminal: Web-based Terminal emulator for Linux