Violet Yao

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EDUCATION

- **University of California, Berkeley** — Berkeley, CA
  Bachelor of Arts in Computer Science and Legal Studies; GPA: 3.88 — *Aug. 2018 – Dec. 2021*

SKILLS

- **Languages**: Python, Java, C, R, Git, Linux, HTML/CSS/JS, NativeScript-Vue, SQL, Scheme
- **Technologies**: NLP, Systems, PyTorch, fast.ai, sklearn, Docker, Pandas, Beautiful Soup, OpenCV, Google App Script

EXPERIENCE

- **Lawrence Berkeley National Laboratory** — Berkeley, CA
  Software Engineering Intern — *Jun. 2019 - Present*
  Developed an SDK package, which streamlined parsing, uploading, and downloading of advanced water splitting material data, used by chemical engineers from 91 national capabilities.

- **UC Berkeley D-Lab** — Berkeley, CA
  Undergraduate NLP Researcher — *Jan. 2019 - Present*
  - **Measuring Hate Speech in Big Data by Unifying Deep Learning with Item Response Theory**: Implemented LSTM, CNN, and Bi-LSTM for single target prediction; implemented CNN for Multi-Task Learning.
  - **Computational Text Analysis of Campaign Messages in French Elections**: Extracted raw text information from French elections websites using Beautiful Soup and from newspapers/magazines using PyOCR.

- **NLP Group at Fudan University** — Berkeley, CA
  Developer — *May. 2019 - June. 2019*
  Read papers; contributed to fastNLP Release 0.4.0, an open source modularized NLP framework.

- **Flourish, FinTech Startup at SkyDeck** — Berkeley, CA
  Fullstack Intern: Developing an ios app in NativeScript-Vue. — *Jul. 2019 - Present*

- **AI Lab, Fosun Group** — Shanghai, China
  NLP Research Intern — *Dec. 2018 - Jan. 2019*
  Developed a medical knowledge graph using DeepDive, read papers, and presented weekly on meetings.

LEADERSHIP

- **UC Berkeley Division of Data Science** — Berkeley, CA
  Discovery Research Program External Coordinator — *Aug. 2019 - Present*
  Provide technical advising for 200+ researchers, automate project management using Google App Script.

- **Cycloid Studio** — Berkeley, CA
  Co-Founder and Head Consultant: Leading developers to provide web solutions for clients. — *Aug. 2019 - Present*

- **Datong Society of China Studies** — Berkeley, CA
  President — *Aug. 2018 - Present*
  Led a communication and research platform for students who are interested in political, historical and social issues of China and East Asia. Held biweekly seminars, exhibition, and social events.

- **TextXD: Text Analysis Across Domains 2019** — Berkeley, CA
  Conference Organizing Committee Member — *Jun. 2019 - Present*
  Led web development for the annual conference in applied NLP: https://www.textxd.org/

PROJECTS

- **Re-Exploring COMPAS Bias**: Co-authored a 23-page report on the trade-offs between fairness and effectiveness of COMPAS, a Law AI widely used in recidivism predicting. Practiced data visualization, scikit-learn and statistics.
- **ClapClass - A Treehacks 2019 Project**: Led a team of 11 to build ClapClass, a smart platform to help students find study buddies with similar study philosophy and schedule while providing a series of useful tools to boost cooperation.