Kaiyuan Chen

http://kychen.xyz/

Email : chenkaiyuan@ucla.edu

Mobile : +1 (424)535-6503

Education

- **University of California, Los Angeles** — Los Angeles, CA
  Bachelor of Engineering in Computer Science — *July 2016 – Present*
  GPA: 3.954/4.0
- **Qingdao Number Two Middle School** — Qingdao, China
  GPA: 4.0/4.0 — *July 2012 – June 2016*

Experience

- **BoTech** — Qingdao, China
  Software Engineer Intern — *Nov 2017 - Present*
  - **Site Enforcement Recorder Management**: Built software for local workstations to manage all police site enforcement recorders of the whole city.
    - **SDK checking tool**: As different police site enforcement recorders have different SDKs, I wrote python scripts to check if their interfaces are valid and recorders are functioning.
    - **Data Collection**: Designed and implemented a unified interface to initialize, setup, backup, modify all site enforcement recorders. Workstations were designed to plug in one hundred recorders.
    - **Coordination with centralized database**: Sending and responding requests by http/ftp with centralized storage servers.
  - **Technologies Used**: Python, Windows Programming, Port Multiplexing, MySQL, QT in C++
- **Siemens Ltd** — Shanghai, China
  Research Assistant Intern — *May 2017 - Sept 2017*
  - **Novelty detection**: Did research and wrote paper on novelty detection on time-series data. As high-dimensional time-series data usually comes with long training time and difficulty in real-time implementations, we built a dynamic Bayesian machine by Expectation-Maximization algorithm.
  - **Time-series Correlation and Clustering**: Did research and wrote paper on correlation between different dimensions of time-series and associated p-value. Used agglomerating tree to cluster time-series data.
  - **Paper Review**: Wrote Paper reviews for other researchers in research group, which later helped organizing the paper that we wrote. I keep doing paper reviews even after I left Siemens, which are all on http://kychen.xyz/
  - **Technologies Used**: Python, Numpy, Pandas, Tensorflow, Matlab, Jupyter-notebook, Latex

Projects

- **LSTMxWave** — *Winter 2017*

  LSTMxWave is a machine learning project that explores the usage of LSTM/RNN to process time-series data such as sound waves.

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- **Class-UCLA** *Winter 2017*
  - : Built software for local workstations to manage all police site enforcement recorders of the whole city.

- **Flappy bird in 3D** *Spring 2017*
  - : Built software for local workstations to manage all police site enforcement recorders of the whole city.

- **All-in or not All-in** *Summer 2017*
  - : Built software for local workstations to manage all police site enforcement recorders of the whole city.