Yongwei Gu
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Page: https://sh1nyruo.github.io/

Education:

Shanghai University of Finance and Economics Yang pu, Shanghai
School of Information Management & Engineering
Bachelor of Computer Science, Sep 2020 – Jun 2024 (Expected)

- **Overall GPA:** 3.44/4.00; 85.39/100; **Rank:** 5/44
- **Relevant Courses:**
  Advance Program Designing and Experiment: 90
  Discrete Mathematics: 92
  Data Structure: 95
  Python Program Design: 98.2
  Optimization Theory and Algorithm: 94
  Algorithmic Design & Analysis: 95
- **Honors:** Second-class People's Scholarship

Experience:

Jun 2022 **Optimization Theory and Algorithm Final Project** Yang pu, Shanghai

A linear programming solver using simplex algorithm

- Developed a linear programming solver using the bounded-variables simplex method with Python (Numpy) that referred to Matlab's linprog function; Designed the visualized solution by printing out the simplex tableau.

Several empirical risk minimizations with linear predictor
Github: https://github.com/Sh1nyruo/Sufe-ConvexOptimization.git

- Minimized $\ell 2$-regularized logistic regression with sigmod loss and $\ell 2$-regularized support vector machine (SVM) with hinge loss (squared hinge loss) using gradient descent method, FISTA, Newton's method, subgradient method, ADMM, proximal gradient method and FISTA with restarting strategy.
- Painted several figures to compare the performance of different methods.

Oct 2022 **Software Engineering Project** Yang pu, Shanghai
A Functions Calculator with Memo Management
Github: https://github.com/newt-rgb/StackOverFlow.git

- Designed a functions calculator with factorial, sin, cos, etc.
- Implemented a memo management system which can send toasts on Win10/11.
- Visualized the GUI with PyQt5.

Oct 2022-now **Artificial Intelligence Project** Yang pu, Shanghai
Github: https://github.com/Sh1nyruo/Sufe-AI.git

- Built an program (in Python) for Othello game, which used a heuristic search algorithm (Alpha–beta pruning) to beat opponents.

Oct 2022-now **Some Self-learning Courses** Yang pu, Shanghai

- UCB CS169: software engineering
- UCB CS188: Introduction to Artificial Intelligence
- UCB CS189: Introduction to Machine Learning
- MIT Theoretical Computer Science courses (Computability and Complexity Theory)

Additional:

- Technical Skills: Python, C++, SQL, Linux, Vim, Git, Docker, Office
- Interests include: soccer, fitness and mahjong
- Languages: Mandarin (native) and English (CET6 555, preparing for TOFEL)