

Yongwei Gu

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Page: <https://sh1nyruo.github.io/>

Education:	Shanghai University of Finance and Economics School of Information Management & Engineering Bachelor of Computer Science, Sep 2020 – Jun 2024 (Expected) <ul style="list-style-type: none">• 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	Yang pu, Shanghai
Experience: Jun 2022	Optimization Theory and Algorithm Project A linear programming solver using simplex algorithm <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• Minimized ℓ_2-regularized logistic regression with sigmoid loss and ℓ_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.	Yang pu, Shanghai
Oct 2022	Software Engineering Project A Functions Calculator with Memo Management Github: https://github.com/newt-rgb/StackOverFlow.git <ul style="list-style-type: none">• 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.	Yang pu, Shanghai
Oct 2022-now	Artificial Intelligence Project Github: https://github.com/Sh1nyruo/Sufe-AI.git <ul style="list-style-type: none">• Built an program (in Python) for Othello game, which used a heuristic search algorithm (Alpha-beta pruning) to beat opponents.	Yang pu, Shanghai
Oct 2022-now	Some Self-learning Courses <ul style="list-style-type: none">• 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)	Yang pu, Shanghai
Additional:	<ul style="list-style-type: none">• 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)	