

## Yongwei Gu

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Education:	<b>Shanghai University of Finance and Economics</b> <b>School of Information Management &amp; Engineering</b> Bachelor of Computer Science, Sep 2020 – Jun 2024 (Expected) <ul style="list-style-type: none"><li>• <b>Overall GPA:</b> 3.44/4.00; 85.39/100; <b>Rank:</b> 5/44</li><li>• <b>Relevant Courses:</b> Advance Program Designing and Experiment: 90 Discrete Mathematics: 92 Data Structure: 95 Python Program Design: 98.2 Optimization Theory and Algorithm: 94 Algorithmic Design &amp; Analysis: 95</li><li>• <b>Honors:</b> Second-class People's Scholarship</li></ul>	Yang pu, Shanghai
Experience: Jun 2022	<b>Optimization Theory and Algorithm Final Project</b> A linear programming solver using simplex algorithm <ul style="list-style-type: none"><li>• 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.</li></ul> Several empirical risk minimizations with linear predictor Github: <a href="https://github.com/Sh1nyruo/Sufe-ConvexOptimization.git">https://github.com/Sh1nyruo/Sufe-ConvexOptimization.git</a> <ul style="list-style-type: none"><li>• Minimized <math>\ell_2</math>-regularized logistic regression with sigmoid loss and <math>\ell_2</math>-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.</li><li>• Painted several figures to compare the performance of different methods.</li></ul>	Yang pu, Shanghai
Oct 2022	<b>Software Engineering Project</b> <b>A Functions Calculator with Memo Management</b> Github: <a href="https://github.com/newt-rgb/StackOverFlow.git">https://github.com/newt-rgb/StackOverFlow.git</a> <ul style="list-style-type: none"><li>• Designed a functions calculator with factorial, sin, cos, etc.</li><li>• Implemented a memo management system which can send toasts on Win10/11.</li><li>• Visualized the GUI with PyQt5.</li></ul>	Yang pu, Shanghai
Oct 2022-now	<b>Artificial Intelligence Project</b> Github: <a href="https://github.com/Sh1nyruo/Sufe-AI.git">https://github.com/Sh1nyruo/Sufe-AI.git</a> <ul style="list-style-type: none"><li>• Built an program (in Python) for Othello game, which used a heuristic search algorithm (Alpha-beta pruning) to beat opponents.</li></ul>	Yang pu, Shanghai
Oct 2022-now	<b>Some Self-learning Courses</b> <ul style="list-style-type: none"><li>• UCB CS169: software engineering</li><li>• UCB CS188: Introduction to Artificial Intelligence</li><li>• UCB CS189: Introduction to Machine Learning</li><li>• MIT Theoretical Computer Science courses (Computability and Complexity Theory)</li></ul>	Yang pu, Shanghai
Additional:	<ul style="list-style-type: none"><li>• Technical Skills: Python, C++, SQL, Linux, Vim, Git, Docker, Office</li><li>• Interests include: soccer, fitness and mahjong</li><li>• Languages: Mandarin (native) and English (CET6 555, preparing for TOFEL)</li></ul>	