

Yubo Cai

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Personal Webpage: [link](#)

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EDUCATION

- **École Polytechnique(X)** Paris, France
Bachelor of Science - GPA: 3.91/4.00 Aug. 2021 - Jul. 2024
 - **Major:** Double major in Applied Mathematics and Computer Sciences
 - **Courses:** Mathematical Analysis 1 2, Linear Algebra, Discrete Mathematics 1 2, Computer Programming, Advanced Programming, Microeconomics, Macroeconomics, Topics in Economics, Econometrics, Calculus, Numerical Analysis, Algorithm, Web Programming, Vector and Fourier Analysis.
- **ESSEC Business School** Paris, France
Bachelor of Business Administration - GPA: 16.88/20 4.00/4.00 Rank: 8/586 Sep. 2020 - Jun. 2021
 - **Major:** Business Administration; Minor in Finance
 - **Courses:** Microeconomics, Macroeconomics, Financial Accounting, Marketing, Finance, Geopolitics, Business Law, Statistics, Entrepreneurship
 - **Honors:** ESSEC Dean's list, ESSEC Excellence Scholar

EXPERIENCE

- **Goldman Sachs** Virtual, base on Salt Lake City and NYC, USA
Insights Series Trainee Jun. 2022 - Jul. 2022
 - **Overview:** The Insight Series is the largest and most comprehensive campus program at GS, and all the trainees can personalize your digital curriculum or enjoy the recommended sessions for your grade levels during this 4-weeks training program.
- **École Polytechnique(X)** Paris, France
Student Ambassador Sep. 2021 - Present
 - **Admissions Assistance:** Introduction about the school life and academic program in l'X to potential candidates, answer their questions about the program, and help them excel in the application process, Assistance in the material reviews of the applicants with the Admissions Office
- **CITIC Securites** Beijing, China
Investment Banking Division Jul. 2021 - Sep. 2021
 - **Financial Report Organization:** Collect news and research reports related to domestic and international financial markets and monetary policies, and assist in the production of weekly research and analysis reports on domestic and international IPO information.
 - **Project Promotion Assistant:** Assist in financial data collection and review, and assist with the prospectus writing.
- **Roland Berger** Beijing, China
Consultant Intern Apr. 2021 - Jul. 2021
 - **Policy Analysis:** Collect economic and industrial policies on the development of IPv6 architecture in each country, formulation of the detailed marketing and RD strategy in different country for the client.
 - **Data Analysis:** Collect data about the IPv6 architecture transition development and analysis on the situation of the development in each country.
 - **Presentation and Report:** Assist for the presentation organization for client and written of the sides.

PROJECTS

- **CSE101 Computer Programming - École Polytechnique(X):** Intermediate level programming in python, including object, class and basic data structure applications for games and applications.
- **CSE102 Advanced Porgramming Final Project - Lossy image compression - École Polytechnique(X):** More advanced level programming in python. Programs about data struction, algothims and Computer Vision, also conclude basic knowledge about cryptography.
The goal of this project is to develop a lossy image compression format close to JPEG. Lossy compression algorithms allow to greatly reduce the size of image files at the price of loosing some data from the original image.

- **CSE103 Intro to Algorithms - École Polytechnique(X)**: Introduction to classical algorithms and implement to those algorithms with python.
- **CSE104 Web Programming Final Project - École Polytechnique(X)**: CSE104 is the courses held by Professor Rohmer Damien at Ecole Polytechnique. And this is the final project related to this course. In this project, we tried to create an integrated website by using HTML, CSS and JavaScript, with a recreation of the classic trivia game with those tools. You can also find the code from this website link. You can find the following games from project:
 1. Flappy bird
 2. 2048
 3. GoBang
- **ECO102 Topic in Economics - École Polytechnique(X)**: Application of STATA in data analysis of Economics data, using the data to do OLS regression, statistics analysis of the data.
- **MAA106 Introduction to Numerical Analysis - École Polytechnique(X)**: Application of jupyterlab and dataspell on the analysis of taylor expansion and integration.

LANGUAGES/COMPUTER SKILLS

- **Computer Skills**: Python, C++, SQL, R, STATA, MATLAB, HTML, CSS, JavaScript, PHP, Markdown, LaTeX
- **Languages**: Chinese - Native, English - Professional in Working (C2 Level), French - Elementary
- **Tools**: Wind, Numpy, Dataspell, Rstudio, MySQL, Matplotlib, SciDavis, Microsoft Office, Spyder, JupyterLab, Overleaf, Julia