

# JASON ZHENG

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## EDUCATION

**Yale University**, New Haven, CT

**Expected May 2025**

- **Bachelor of Science** Candidate in **Computer Science and Economics**, **Certificate in Data Science**; GPA: 3.74
- **Activities:** Chinese American Students Association (*Treasurer, Operations Manager*), Yale Daily News (*Back-End Developer*), Scholars of Finance (*VP*), Elmseed Enterprise Fund (*Project Manager*), Urban Philanthropic Fund (*Industrials*), Volunteer Income Tax Assistance (*Advanced Tax Preparer*), Club Water Polo, Club Swim
- **Relevant Coursework:** Data Structures, Algorithms, Systems Programming and Computer Organization, Data Analysis, Multivariable Calculus, Discrete Mathematics, Linear Algebra, Corporate Finance, Microeconomics, Econometrics

**London School of Economics**, London, England

**June - July 2022**

- Distinction in Finance (FM250), and Introduction to Behavioral Economics (EC200)

**Saratoga Springs High School**, Saratoga Springs, NY

**Graduated June 2021**

- Unweighted GPA: 98.74/100; Weighted GPA: 101.62/100; Rank: 1/495 (Valedictorian)

## EXPERIENCE

**Incoming Undergraduate Learning Assistant | Yale CPSC 323**

**Fall 2023**

- Teaching Assistant for Systems Programming and Computer Organization (taught in C and x86-Assembly)

**Incoming Summer Analyst | Anchorwork**

**June 2023-August 2023**

- Researched and built Amazon storefront for fund's portfolio company; Developed client info database (200+ clients)

**Research Assistant | Yale Center for Environmental Law & Policy**

**May 2022 - September 2022**

- Developed the data visualization codebase for the Global Commons Stewardship Index to increase user interaction
- Successfully researched, tested, and built the framework for a Sankey Diagram that dynamically filters and tracks the environmental impacts of over 100 countries' trade flows according to 33 different indicators using RShiny

**Business Development Intern | Thea Learning Co. (DBA "Eyre Writing Center")**

**June 2021 - September 2022**

- Updated project management software (Monday.com) for an education start-up, including the CRM database, and implemented various automatic integrations within the school's guidebook to double incoming customer headcount
- Streamlined processes for marketing, onboarding, and maintenance of new and existing cohorts of students
- Designed and developed a working prototype to pitch to angel investors using various no-code platforms (Bubble) and researched agile project management (epics, user stories) for software development
- Reduced recurring bills by \$350/month by downloading 150+ hours of cloud video and identifying various unused products in the start-up's bank statements

**Data Analyst | AlgoEd**

**January 2022 - June 2022**

- Researched and organized over 20 UK colleges' admissions data and individual subject entry requirements into an extensive spreadsheet database (230,000+ cells) to serve as the data backbone for an Ed-Tech consulting start-up

## RELEVANT PROJECTS

**Toy Compiler | C, x86-Assembly**

- Built a mini-compiler in C that converts intermediate representation into x86\_64 assembly with additional middleware that optimizes and transforms the IR before being translated for faster machine code performance

**Dynamic Memory Usage Analyzer | C**

- Built tools that help debug errors with memory allocation; catch common Valgrind errors (stack overflow, invalid reads/writes/frees, double frees); and return heap usage statistics and advanced reports on memory bugs and leaks

**Poker Hand App | React.js, JS, HTML, CSS**

[GitHub](#)

- Used the Poker-odds API to build a dynamic web interface that returns the probability of your hand winning the round

**To-Do App w/Randomizer | React.js, Node.js, Express.js, MongoDB, Mongoose, Axios, JS, HTML, CSS**

[GitHub](#)

- Developed a full-stack to-do app with the MERN stack that utilizes a random wheel to return the next task to complete
- Used Axios, Mongoose, and Express to implement CRUD operations to maintain task list within a MongoDB database

**Taste of China | React.js, Node.js, Express.js, MongoDB, Mongoose, Axios, Passport.js, JS, HTML, CSS**

[GitHub](#)

- Created a full-stack website for family restaurant using the MERN stack to modernize business and increase traffic
- Implemented CRUD operations to house menu items within MongoDB and used OAuth to implement authentication

## SKILLS + LANGUAGES

- **Languages:** C | Python | R | JS | Java | HTML | CSS | MongoDB | Unix | Git | x86-Assembly | LaTeX | Racket | Bubble
- **Frameworks/Libraries:** Node | React | Bootstrap | Express | Mongoose | jQuery | EJS | Axios | RShiny

**Interests:** Clarinet, Piano, Football, Basketball, Swimming, Water Polo, Cars, Video Games