JASON ZHENG

Saratoga Springs, NY 12866 **|** jason.zheng@yale.edu **|** +1 (518)-879-4427 | Website | LinkedIn: jz1459 | GitHub: jz1459

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 (*Vice President, Treasurer, Operations Manager*), Yale Daily News (*Back-End Developer*), Yale Computer Society (MajorAudit, Front-End Lead), Scholars of Finance (*Vice President*), Elmseed Enterprise Fund (*Project Manager*), Urban Philanthropic Fund (*Industrials*), Club Water Polo, Club Swim
- **Relevant Coursework**: Data Structures, Algorithms, Systems Programming and Computer Organization, Data Analysis, Discrete Mathematics, Linear Algebra, Machine Learning, Computer Vision, 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

Summer Analyst **| Anchorwork**   **June 2023 - August 2023**
- Researched and built Amazon storefront for fund's portfolio company; Developed client info database (200+ clients)

Data Visualizations 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

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 spinner to return the next task to do
- 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, JWT, JS, HTML, CSS*   *GitHub*
- Created a full-stack website for family restaurant using the MERN stack to modernize business and increase traffic flow
- Used JSON Web Tokens to implement authentication middleware to allow family easy access to CRUD operations to maintain 200+ menu items, prices, and hours of operation within a MongoDB database

Football Grid | *React.js, Pandas, Beautiful Soup, Python, JS, HTML, CSS*   *GitHub*
- Created an infinite tic-tac-toe version of the Immaculate Grid game using React and used Pandas and BS4 to clean and scrape data from pro-football-reference.com containing all 32 NFL football team rosters from the past 10 NFL seasons

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