Henry Xiaofeng Li

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Education

Stony Brook University, Stony Brook, NY   *August 2017 – May 2021*
- **Majors:** Computer Science, Applied Mathematics and Statistics
- **GPA:** 3.63 / 4.00
- **Achievements:** Dean's List, University Scholars
- **Relevant Courses:** Data Structure, Programming Abstractions, Scripting Languages, Analysis of Algorithms, Software Engineering, Software Development

Skills

- **Languages:** Python, Caché/MUMPS, JavaScript, TypeScript, HTML/CSS, C#, Java, C, SQL
- **Frameworks:** React.js, Django
- **Databases:** MongoDB, MySQL

Experience

Epic Systems, Verona, WI *(Software Developer)*   *July 2021 – Present*
- Peer reviewed over 50 developments, and provided over 30 feedback back to the developers
- Worked on over 30 developments, and fixed over 50 issue notes
- Worked on over 5 projects and written over 10 designs that have been approved by other developers
- Designed a performance improvement to our calculation with the usage of caching, and released first part of the project to our customers to collect metrics on the new calculation.
- Designed new settings that allow our customers to have more control over our calculation. With these new settings, some calculations can evaluate up to 100% faster if configured correctly.
- Languages used: Caché/MUMPS, C#, JavaScript, TypeScript, HTML/CSS

KidOYO, Long Island, NY *(Mentor)*   *September 2018 – September 2019*
- Mentored young computer science learners to turn their creative ideas into a computer program
- Provided feedback to students to help them understand their mistakes
- Languages used: Java, Python, JavaScript, HTML/CSS, Scratch

Programming Projects

Birp Converter *(C)*   *March 2021*
- A tool that converts image data between the PGM format and a non-standard Birp format that represents the pixel raster using a variant of a data structure called binary decision diagrams
- Included multiple image transformation options for the Birp format

NBA Positions Analysis *(Python)*   *January 2021*
- Analyzed how each position differs in their play style and how the characteristics of a player impact the position he plays
- Scraped data with BeautifulSoup and Selenium from multiple sources
- Used Plotly to help visualize the data in different types of plot

Money Manager *(Python)*   *December 2020*
- Built a web application using Django that allows users to keep track of their income and expenses
- Utilized FullCalendar.js to display the transactions on a calendar
- Included a monthly spending summary for each month

Redistrictor *(Python, Java, JavaScript)*   *September 2020 – December 2020*
- Built a web application that allows user to random generate districting plan on selected states, and compare to the enacted plan via a box-and-whisker plot
- Implemented an algorithm that ran on real-world data and generated promising results
- Designed appropriate data structures to optimize algorithm runtime
- Created a local server with the Spring Boot framework