

# JASON ZHENG

📍 Deptford, NJ, 08096 📩 jzheng2413@gmail.com ☎ 215-833-5883 ⚡ GitHub 💬 LinkedIn 🇺🇸 U.S. Citizen

## EDUCATION

<b>Rensselaer Polytechnic Institute</b> Bachelor of Science, Computer Science, & Information Technologies and Web Science	Expected May 2028 Cumulative GPA: 3.63
<ul style="list-style-type: none"><li>• Relevant Coursework: Computer Architecture &amp; Operating Systems, Web Systems Development, Foundations of Computer Science, Data Structures &amp; Algorithms, Multivariable Calculus &amp; Linear Algebra</li><li>• Dean's Honor List</li><li>• Sigma Chi Fraternity Involvement</li></ul>	

## PROJECTS

<b>Go Gaia</b>   <i>Machine Learning, Computer Vision, Microsoft Azure Services, Flask</i>	September 2025
<ul style="list-style-type: none"><li>• Trained a <b>Microsoft Azure Custom Vision</b> model to classify the recyclability of an object through an image at <b>~70% accuracy</b>.</li><li>• Integrated <b>Flask</b> to process front-end data and manage API communication with the Python backend.</li><li>• Utilized <b>Git</b> for version control and <b>GitHub</b> to effectively develop the application with the Team of 3 others.</li><li>• Received award from Avanade for best use of Microsoft Azure's AI.</li></ul>	
<b>Financial Reinforcement Learning Research</b>   <i>Data Analysis, Pandas, NumPy</i>	September 2025 - Present
<ul style="list-style-type: none"><li>• Modified an outdated Gym-Trading-Env environment to fit the usage of a modern Financial Reinforcement Learning (<b>FinRL</b>) pipeline.</li><li>• Engineered API-driven pipelines to collect, clean, and normalize OHLCV, sentiment, and statistical features for high-accuracy modeling.</li><li>• Evaluated the impact of training the <b>Proximal Policy Optimization (PPO)</b> Trading Agent under the new environment implemented.</li><li>• Integrated a custom Gymnasium trading environment into the FinRL reinforcement learning pipeline, refactoring environment registration and training interfaces to support <b>Stable-Baselines3 PPO</b> agents.</li></ul>	
<b>Data Pulse</b>   <i>PyArrow, Flask, Pandas, Parquet, Bloomberg Terminal</i>	September 2025 - Present
<ul style="list-style-type: none"><li>• Used the Bloomberg Terminal to compare and bridge the data gap from the end of the historical recordings to the present.</li><li>• Developed code to route and parse <b>10 million+</b> lines of stock data on <b>4,000+</b> companies over the past decade.</li><li>• Reduced time of look-up for researchers by about <b>250%</b>.</li><li>• Created filtered data that can be tabularly or graphically visualized.</li></ul>	
<b>Scrappy</b>   <i>PHP, SQL, Native JavaScript, HTML, CSS</i>	February 2025 - May 2025
<ul style="list-style-type: none"><li>• Developed a social media app with dynamic post-editing (with no help from frameworks) and interactive UI components, receiving <b>90%</b> positive feedback from users.</li><li>• Built a back-end relational database for storing user account data and content using <b>SQL</b>.</li><li>• Managed project using <b>Git</b> version control and utilized <b>GitHub</b> to develop the platform effectively with my team of 2.</li></ul>	

## EXPERIENCE

<b>PerCapita Group, Inc.</b>   <i>IIS, Soldering, Postman</i>	December 2023 - May 2024
<ul style="list-style-type: none"><li>• Modernized an outdated AMP home automation system by reverse-engineering legacy APIs and testing functionality with <b>IIS</b> and <b>Postman</b>.</li><li>• Worked with the Chief Technologies Officer to see how technical decisions map to stakeholder needs and delivery timelines.</li></ul>	

## SKILLS

**Programming Languages:** C/C++, Python, Java, JavaScript, SQL, HTML/CSS, PHP, R, MIPS Assembly  
**Frameworks:** jQuery, Node.js, React.js, MySQL, Pandas, NumPy, Flask, PyArrow, Stable-Baselines3  
**Tools:** Bloomberg Terminal, Render, IIS, Git, GitHub, VS Code  
**Concepts:** Object-Oriented Programming, Relational Database Design, Postman API