

Jessica Ye

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EDUCATION

Barnard College of Columbia University | New York, NY | *Bridgewater Scholar* Expected May 2027

B.A. Computer Science and Math | 3.90/4.00 GPA

Relevant Coursework: Data Structures (Java), Advanced Programming (C Programming), Databases, Artificial Intelligence

Activities: Computing Fellow, Barnard SGA Representative for Information & Technology, Columbia Votes (Treasurer), Impact Investing Network (Director of Club Engagement), POLIS (VP of Finance), Women in Computer Science

Thomas Jefferson High School for Science and Technology | Alexandria, VA June 2023

Advanced High School STEM Diploma | 4.50/4.00 GPA; SAT: 1550

Relevant Coursework: Artificial Intelligence (Python), Data Structures (Java), Web Development (Node.JS, Express.JS, HTML/CSS/JS), Mobile Development (Android)

Honors & Awards: US Senate Youth Program Delegate, Girl Scout Gold Award, President's Volunteer Gold Medal

SOFTWARE DEVELOPMENT EXPERIENCE

International Research Institute for Climate & Society | New York, NY | *Research Intern* September 2023 – May 2024

- Created a statistical forecast with area yield data to improve weather insurance for farmers in Malawi, improving upon currently inequitable and variable insurance calculation mechanisms
- Deployed interactive web applications, using R Shiny and Python, for outreach programs with 5+ local non-profits and governments; worked with a team of 10 researchers (masters & PhD students)

Laansu Incorporated | Sterling, VA | *Software Engineering Intern* June – August 2023

- Developed a framework to process car accident reports from the National Highway Traffic Safety Administration, using C# and .NET, contributing to increased efficiency and accuracy of accident documentation
- Created an API utilizing computer vision techniques to extract and verify requested information from hundreds of documents, streamlining the data collection process and improving processes by 30%

Cisco | Herndon, VA | *Extern* June – July 2022

- Led final project to streamline the freight supply chain with a train stoppage detection system & shipping crate tracking
- Learned from Cisco professionals on topics including IoT systems, cybersecurity, and sustainability-focused technology

ADDITIONAL WORK EXPERIENCE & LEADERSHIP

Climate Cardinals | Mclean, VA (Remote) | *Director of Finance* June 2023 – Present

- Managed a \$75,000+ annual budget; coordinated \$200,000+ in grant-giving; led team of 10 deputy directors
- Facilitated translation and fiscal partnerships with United Nations Environment Programme (UNEP), the UN Children's Fund (UNICEF), Condé Nast, Yale Climate Connections; reached 10,000+ volunteers in 80+ countries

Textbook Ventures | New York, NY | *Research Analyst Intern* January – August 2024

- Organized inaugural central repository of information for new entrepreneurs navigating the NYC startup ecosystem, focusing on 50+ venture accelerator programs and interviews with entrepreneurs and venture capitalists
- Evaluated investments & wrote deal memos; worked alongside managing partners to research AI and SAAS industries

PROJECTS

NoteBuddy – React Native, Flask, Python, HTML/CSS/JS

- Online note-taking application providing personalized note-taking and study feedback based on user input
- Technologies: Flask back-end; React Native front-end dashboard; OpenAI API for chatbot responses

Bloop (Productivity Chrome Extension) – HTML/CSS/JS, Flask

- Chrome extension for personal productivity that blacklists distracting websites with an LLM interface, integrating user input with OpenAI API to determine adjustments to website blacklisting

Oystilter – Arduino, C++

- Developed two-filter IoT-enabled water-filtration device for scalability & smart filtration in natural waterways
- Integrated Arduino components using C++ code to provide online-connection capabilities

SKILLS & LANGUAGES

Programming Languages: Python, Java, C, C#, C++, SQL, R, HTML/CSS/JavaScript, SASS, Bash, R-Shiny

Programming Frameworks/Libraries: React, Node.JS, Express.JS, Bootstrap, NumPy, Matplotlib, Pandas, Flask, .NET

Other: Git, VSCode, Microsoft Office, Jupyter Notebook, LaTeX, MongoDB, OpenAI, Arduino, Android Studio, MATLAB