

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, Networking, Operating Systems), Databases, Discrete Math, Fundamentals of Computer Systems, Linear Algebra, Calc III

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

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) | *(Volunteer) 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

July | New York, NY | *Sales & Product Intern*

September 2024 – Present

- Facilitated 100+ demo calls; managed sales pipeline end-to-end, closing 10+ new customers in the creator agency space
- Re-designed the user interface and experience (UI/UX) of key component (automated pitch decks), incorporating customer feedback & production specifications; worked with engineering & design team to iterate on customer testing

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.JS, Flask, Python, HTML/CSS/JavaScript

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

Curator – Next.JS, JavaScript, Flask, SQL (PostgreSQL)

- Produced a social networking application for sharing curated collections of multimedia content
- Implemented Flask/Next.JS stack with PostgreSQL on a Google Cloud Platform VM, conducted design

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

TECHNICAL SKILLS & PROGRAMMING LANGUAGES

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

Frameworks/Libraries: React, Node.JS, Express.JS, Bootstrap, AJAX, REST APIs, Flask, NumPy, Matplotlib, Pandas

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