Raven Rothkopf

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EDUCATION

Barnard College, Columbia University | New York, NY | *BA Computer Science* Expected May 2024 |
Minor in Mathematics and Environmental Science; Dean's List (Spring 2021, Fall 2021, Spring 2022) GPA: 3.77

★ **Relevant Coursework:** Data Structures and Algorithms in Java, Advanced Programming in C, Accessible User Interface Design, Computer Science Theory, Programming Languages and Translators, Calculus I through IV

TECHNICAL SKILLS & LANGUAGES

Technical: Java, Python, C/C++, JavaScript/jQuery, OCaml, TypeScript, Git/Github, Vim, Linux OS, Accessible Web Development, Unity, LaTeX, Microsoft Office

Languages: Intermediate Spanish

PROGRAMMING & RESEARCH EXPERIENCE

Programming Languages Lab, Barnard College | New York, NY | *Research Assistant* | February 2022 – Present
▪ Researcher under Dr. Mark Santolucito ▪ Conduct novel research in reactive program synthesis to advance temporal stream logic ▪ Developed dynamicGrammars, a dynamic, dropdown-based structured editor for temporal logic specifications in JavaScript ▪ Contribute to VSCode language extension for writing temporal logic in JavaScript and TypeScript, targeting both syntactic and semantic pitfalls ▪ Develop an interface to synthesize animations using temporal logic and JavaScript's THREE.js library ▪ Write code as part of a team and undergo weekly code quality reviews ▪ Attend twice-weekly stand ups to report progress of research ▪ Provide feedback and advice to peers on research progress as a temporal logic expert ▪ Write and edit academic work for presentation, grant application and publication ▪ Received funding from the National Science Foundation and Barnard's Summer Research Institute to support ten weeks of full-time summer work

The Needle's Eye Academy | Remote | *Web Developer* | November 2022 – Present
▪ Employ HTML, CSS, and JavaScript to code official website from scratch, which will be published March 2023 ▪ Synthesize information from The Needle's Eye Academy's current LinkTree to organize ideas into a seamless website for the nonprofit ▪ Meet weekly for 1 hour sessions with collaborators to discuss deadlines, successes and challenges, and to establish common vision for the cite

Instructional Media and Technology Services (IMATS), Barnard College | New York, NY | *Student Assistant* | September 2021 – October 2022
▪ Use Drupal and web development skills to produce a more accessible user interface for Barnard library, IMATS, and Media Center websites ▪ Work to provide free access to audio and visual technology for the broader Columbia University community ▪ Facilitate checkouts and returns at the equipment room window ▪ Attend regular trainings on new equipment and software ▪ Assist with Media Center workshops, events, and film screenings ▪ Manage IMATS and Media Center social media channels (Facebook, Instagram, and Twitter)

LEADERSHIP & COMMUNITY INVOLVEMENT

Computer Science Department, Barnard College | New York, NY | *Student Liason, Community Coordinator* | September 2022 – Present
▪ Organize and lead weekly CS Social Hour for Barnard students interested in the field in order to uplift women and gender minorities within CS ▪ Correspond consistently with the head of the CS department, Dr. Rebecca Wright, throughout the week to brainstorm and implement programming to cultivate community ▪ Deploy a mentoring program to demystify challenges in CS such as getting into research, exploring fields in CS through introductory workshops, and applying to internships

Chicago Raw | Chicago, IL | *Manager* | October 2020 – September 2021
▪ Manager of small raw vegan restaurant ▪ Brought in tens of thousands of dollars in sales ▪ Tasks included customer service, problem resolution, inventory management, reconciliation, food/drink preparation, drink service, food safety training, point of sale systems operation, and key holder. All tasks required strong interpersonal skills