

Ava Hajratwala

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SUMMARY

Recent Columbia graduate and proven leader passionate about learning new tech stacks and leveraging AI technologies to solve complex challenges. Seeking software engineering and project management opportunities to drive innovation and enhance user experiences.

EDUCATION

Barnard College, Columbia University <i>Bachelor of Arts in Computer Science</i> <i>Selected courses: Design for Generative AI, Entrepreneurship, NLP</i>	New York, NY Sept. 2021 – Dec. 2024 GPA: 3.8/4.0
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SKILLS

Languages: Python, Java, JavaScript/TypeScript, C, C++, C#, SQL (MySQL), HTML, CSS, Haskell Frameworks: React, Node.js, Flask, JUnit Developer Tools: Git, Docker, VS Code, Postman, PyCharm, IntelliJ Libraries: jQuery, NumPy, OpenCV, pandas, Matplotlib, WebAudio	
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EXPERIENCE

Full-stack Developer <i>WBAR Radio</i> <ul style="list-style-type: none">Developed a scalable REST API in Node.js with MySQL, enabling real-time access to radio show schedules, archives, and DJ information for over 500 users.Designed and deployed a relational database from scratch, replacing hardcoded data and streamlining data management, which improved scalability and reduced manual updates.Translated wireframes into reusable, dynamic React components, enhancing the user interface and accelerating feature development by 20%Designed a role-based permissions system in the database, allowing DJs and executive board members to securely manage their content, enhancing workflow efficiency and user autonomy.	Sept. 2024 – Present New York, NY
Undergraduate AI Research Lead <i>Soros Lab, Barnard College</i> <ul style="list-style-type: none">Promoted to team lead in 3 months for strong leadership, organization, and communication skillsSecured a \$6,000 grant to work on a team developing novel genetic algorithms in PythonCut approx. 10 hours per week of test runtime by parallelizing experiment trialsMentored 3 teammates in Git and GitHub, improving team collaboration and version control practices.Presented findings in a poster session to more than 50 academics and industry leaders, showcasing summer work and initiating discussions on future collaboration opportunities.Currently writing a technical paper to submit to the GECCO conference in January 2025	May 2024 – Present New York, NY

PROJECTS

Privacy Policy Helper <i>Python, Flask, React, Git</i> <ul style="list-style-type: none">Built a full-stack web app to help users evaluate privacy tradeoffs using OpenAI's chat APIConducted testing on 10 users to refine technical prototype, increasing user satisfaction by 30%Built a webscraper to retrieve a privacy policy by company name and increase model accuracyProcessed GPT output using fuzzy search to cite sources in the model's response to increase user trust in the model's answer	Sept. 2024 – Present
Flight Simulator <i>C++, Arduino, Unity, Serial, Fusion360</i> <ul style="list-style-type: none">Developed a custom USB-C protocol for ESP32 to control a virtual plane in the Unity game engineProcessed analog sensor inputs in real-time to smooth plane handling and decrease crash rateRendered real-time flight feedback to the ESP32 screen to warn pilots of crashesDesigned and machined a custom protective enclosure for the electronics	Apr. – May 2024