Ayush Garg

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EDUCATION

University of Richmond, Richmond, VA   Expected May 2026
Bachelor of Science in Computer Science with a minor in Business administration and Entrepreneurship
Cumulative GPA: 4.00
- Honors: Meritorious full scholarship Richmond Scholar award, Dean's List ('A' list): Fall '22
- Relevant courses: Data Structures, Discrete Mathematics, Linear Algebra, Multivariate Calculus, Microeconomics

EXPERIENCE

University of Richmond, Richmond, Virginia   January 2023 – Present
Research with Dr. Catherine Finegan-Dollak
- Implement grounded NLP to translate human instructions into computer-executable commands to simulate video games.
- Develop a deep understanding of machine learning and the connection between different machine learning domains.

University of Richmond, Richmond, Virginia   May 2022 – Present
Instructional Student Assistant at Technology Learning Center
- Provide assistance to students and faculty in software, and other computer-related queries, averaging 10+ hours per week.
- Stay current with industry advancements and demonstrate proficiency in Photoshop, 3D printing, filming, etc.

Lion Befrienders, Singapore   September 2021 – March 2022
Lead developer
- Developed a client-side chatbot in JavaScript that can be easily injected into a webpage, reducing support costs by 300%.
- Directed the development of a scam message simulator with video courses to sensitize 200+ elderly around Singapore.
- Worked with the team to present the project to the president Halimah Yacob at the DigitalForLife festival.

Research with Dr. Daniel Mietchen Et al, Online   May 2021 – April 2022
Developer of Docanalysis
- Implemented entity recognition using Natural language processing through spaCY in a user-friendly package.
- Decreased processing speed compared to a human by more than 400%, saving 10 hours for every 50 papers.
- Extracted ethic statements from research papers and got research idea published in Research Ideas and Outcomes.

Research with Dr. Peter Murray Rust Et al, University of Cambridge   February 2021 – December 2022
Developer of Pygetpapers
- Developed library to retrieve papers from repositories, increasing efficiency by 10 folds compared to manual downloads.
- Downloaded by more than 200 researchers around the globe and published in the Journal of Open-Source Software.
- Designed automated workflows to ensure reliability and extended support to include any open-source library.

LEADERSHIP & ACTIVITIES

Hackathon, Multiple Locations   September 2020 – Present
Mentor and developer
- Lead development of projects such as vaccine distribution system and financial literacy app using Python, ReactJS, etc.
- Mentor students on python classes, packaging, API development, firebase integration, and login systems.
- Achieved prestigious awards at University of Virginia, University of British Columbia, and Nanyang Technical University.

SKILLS & INTERESTS

Skills: Python, JavaScript, Java, GitHub, HTML5, CSS, MySQL, App Development, Communication, Creativity, Critical Thinking.
Interests: Cooking, Public Speaking, Physical fitness.