

Ayush Garg

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EDUCATION

University of Richmond, Richmond, VA

Expected May 2025

Bachelor of Science in Computer Science; Minor in Business Administration;

Cumulative GPA: 4.00/4.00

- **Honors:** Richmond Scholar award (Meritorious full ride award offered to 25 incoming students), Dean's A-list (Fall 22)
- **Relevant courses:** Data Structures, Discrete Mathematics, Linear Algebra, Multivariate Calculus, Microeconomics

EXPERIENCE

Grounded Natural Language Processing Lab, University of Richmond, Virginia

January 2023 – Present

Research Assistant

- Research grounded NLP to translate human instructions into computer-executable commands to simulate video games
- Develop a deep understanding of machine learning and its domains under the guidance of Dr. Catherine Finegan-Dollak
- Prepare a literature review paper and propose a neural network architecture with a greater accuracy than current models

Technology Learning Center, University of Richmond, Virginia

May 2022 – February 2023

Instructional Technology Assistant

- Provided assistance to students and faculty in software, and other computer-related queries, averaging 10+ hours per week
- Demonstrated proficiency in Photoshop, 3D printing, filming, etc and stayed current with industry advancements
- Managed internal communication using a ticketing system as well as designed marketing material for social media platforms

Pygetpapers, Remote

February 2021 – December 2022

Lead Developer

- Designed a CLI under Dr. Peter Murray Rust to retrieve papers from repositories, downloaded by 200+ researchers
- Increased efficiency by 10 folds compared to manual downloads and got published in the Journal of Open-Source Software
- Designed automated workflows to ensure reliability and extended support to include any open-source library

Docanalysis, Remote

May 2021 – April 2022

Lead Developer

- Implemented entity recognition with Dr. Daniel Mitchen through spaCY in a user-friendly Python package
- Increased 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

Lion Befrienders, Singapore, 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

LEADERSHIP & ACTIVITIES

Hackathon, Multiple Locations

September 2020 – Present

Mentor and developer

- Lead development of projects such as financial literacy app and Mentor students on API development and login systems
- Achieved prestigious awards at University of Virginia, University of British Columbia, and Nanyang Technical University

Tech Titans Podcast, Remote

March 2021 – March 2022

Host

- Interviewed experts to discuss intricacies of technologies such as crypto, gamification, and satellite with 100+ listeners
- Conducted in-depth market research to identify emerging trends in the tech industry, and merged with GIIS Smart Cast

SKILLS & INTERESTS

Skills: Python, JavaScript, Java, GitHub, HTML5, CSS, MySQL, CLI integration, Flask, firebase, pandas, ReactJS, VueJS. Hindi

Interests: Cooking, Public Speaking, Physical fitness, Rick and Morty, Valorant