

# Ayush Garg

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## EDUCATION

**University of Richmond**, Richmond, VA

May 2026

*Bachelor of Science in Computer Science; Minor in Mathematics and Business Administration.*

**Cumulative GPA: 3.97/4.00**

- **Honors:** Richmond Scholar award (Meritorious full ride offered to 25 incoming students), Dean's A-list (All semesters)
- **Relevant courses:** Algorithms, Business Statistics, Advanced Linear Algebra, Computer Organization

## EXPERIENCE

**HoHoKus Inc.**, Richmond, Virginia

Dec 2023 – Present

*Software Engineering Intern*

- Develop an ERP app with Postgres Database, featuring user authentication, inventory tracking, and router management.
- Conduct research to develop a shape recognition model for aerospace parts, improving identification accuracy.
- Architect the backend in Python for an internal HR software tailored for recruiting needs within the aerospace industry.

**Answerthis.io**, Richmond, Virginia

March 2023 – Present

*Cofounder, CEO*

- Implement three concurrent natural language processing models to retrieve accurate citations from documents.
- Develop a multi-threaded Rest API using Flask, deployed through Gunicorn, containerized, and hosted on cloud servers.
- Secured first place at the Accelerate Investor Conference, a competitive venture investor event, resulting in a \$5k prize.

**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.
- Organized technology workshops and training sessions for students and faculty, enhancing campus-wide digital literacy.
- Managed internal communication using a ticketing system as well as designed marketing material for social media platforms.

**Lion Befrienders**, Singapore, Singapore

September 2021 – March 2022

*Technology Intern*

- Developed a client-side chatbot in JavaScript that can be easily injected into a webpage, reducing support costs by 300%.
- Led the development of a gamified scam simulator with video courses, sensitizing 200+ elderly in Singapore.
- Collaborated with the team to pitch a presentation to President of Singapore, Halimah Yacob, at the DigitalForLife festival.

**Docanalysis**, Remote

May 2021 – April 2022

*Research Assistant*

- Implemented semantic analysis of documents with Dr. Daniel Mitchen through spaCY in [a user-friendly Python package](#).
- Increased processing speed by more than 400% compared to a human, saving 10 hours for every 50 analyzed papers.
- Extracted ethic statements from research papers and got research idea [published in Research Ideas and Outcomes](#).

**Pygetpapers**, Remote

February 2021 – December 2022

*Research Assistant*

- [Designed CLI](#) under Dr. Peter Murray Rust to retrieve scientific papers from repositories, used by 45000+ researchers.
- Increased efficiency by 10 folds compared to manual downloads and got published in the [Journal of Open-Source Software](#).
- Designed automated workflows and testing to ensure reliability and extended support to include any open-source library.

## PROJECTS

**Hackathon**, Multiple Locations

September 2020 – Present

*Mentor*

- Lead development of projects such as financial app Finlearn and mentor students on API development and login systems
- Received top three awards at University of Virginia, University of British Columbia, and Nanyang Technical University

## SKILLS & INTERESTS

**Skills:** Python, Flask, Node, Rest API, SQL ORM, Java, Docker Compose, Nginx, Javascript, TypeScript, Photoshop, Vegas Pro