

# Arjun Yadav

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## Education

**University of Manchester**, BSc(Hons) Computer Science Sep 2024 – Present

- **Societies and Committee Roles:** Website Developer at Makerspace Manchester, AI Vision Team Member at Manchester Stingers Motorsports, AI Officer at EA Manchester and GameDev Member & Events Officer at UniCS.
- **Coursework:** First Year Team Project, Fundamentals of Computer Engineering, Fundamentals of Computer Architecture, Introduction to Programming and Mathematical Techniques for Computer Science.

**Delhi Private School, Sharjah** Apr 2010 – Apr 2024

- **Activities and Leadership Roles:** Vice Head Boy for 2023-24, Coordinator - Environment for 2022-23, Student Moderator for Project: Unboxed, Co-organiser of TEDxYouth@DPSS 2023, Co-Research Head at Youth Global Solutions Summit'23 and Decorated Member of Model United Nations Team.
- **Subjects:** Physics, Chemistry, Mathematics, Computer Science and English
- **Awards:** AP Scholar with Distinction, Outstanding Student Leadership Award (unanimous vote), Best Council - Youth Global Solutions Summit'23 and First Place - Essay Writing Competition.

## Experience

**Technology Director**, Kickstart Global – London, United Kingdom Aug 2024 – Present

- Established and managed critical digital infrastructure for the Founders Under 24 (FU24) fellowship, streamlining collaboration via platforms such as WhatsApp, Notion, and Google Admin Workspace.
- As a part of the role, developed a housing renovation platform at Entrepreneur First's Fall Hackathon in Shoreditch Exchange and later curated a lunch with all the fellows of the FU24 fellowship.

**Deep Tech Intern**, Arrayah – Dubai, United Arab Emirates Aug 2024

- Conceptualised Offline Streaming Systems, a platform to enable seamless data transfer without an active internet connection by optimising mesh network performance.
- Further collaborated on Feed Forward, a platform designed to manage and redistribute food waste by designing workflows to improve food donation matching and logistics.

**Research Collaborator**, Dioptra Dec 2023 – Jul 2024

- Programmed the classic card game Pit as part of the nine games for GameBench, a research project aimed at analysing the strategic reasoning of the most popular large language models.
- Co-authored a paper presented at the Language Gamification Workshop 2024 at NeurIPS 2024.

**Co-Founder**, Effective Altruism UAE Dec 2022 – Jul 2024

- Built and established the UAE's national chapter for Effective Altruism, leading initiatives to promote ethical and effective charitable actions.
- Facilitated connections between EA AUS and EA NYUAD, helping to create a unified network for discussions on philanthropy and altruism.

**Intern**, Delhi Private School, Sharjah May 2024

- Under the headmistress, oversaw a range of administrative tasks, ensuring smooth daily operations.
- Dealt with social media management, content writing, and design projects, enhancing the school's online presence.
- Provided web development support for all departments, improving internal platform functionality and user experience.

**Inductee and Organiser**, AI Safety Camp, Virtual AI Safety Unconference Dec 2023 – May 2024

- Inducted into AI Safety Camp 2024, organised the Virtual AI Safety Unconference, bringing together leading experts to discuss AI safety concerns.

- Coordinated international participation, managing over 40 talks and presentations that covered a wide array of topics in AI safety and ethics.

**Research Assistant**, American University of Sharjah

Jun 2023 – Dec 2023

- Conducted research on transformer-based models to enhance image recognition technology for the World Wildlife Fund's set of CameraTrap images.
- Gained hands-on experience with semi-supervised learning techniques and transformer models.

**Front-end Developer and Data Visualiser**, Effective Altruism Data, Legal Priorities

Oct 2021 – Apr 2022

Project (now Institute for Law & AI)

- Redesigned and improved the design of Effective Altruism Data, enhancing functionality.
- Leveraged expertise in Python, Dash, and Plotly to optimize visualisation and accessibility.
- Collaborated with Legal Priorities Project to provide data visualisations for "Protecting Future Generations: A Global Survey of Legal Academics".

## Publications

**GameBench: Evaluating Strategic Reasoning Abilities of LLM Agents**

Jul 2024

10.48550/arXiv.2406.06613

## Projects

**Bear Blog Replacement Template**

[github.com/y-arjun-y/bear-blog-replacement-template](https://github.com/y-arjun-y/bear-blog-replacement-template)

- Developed a lightweight blog template to replace the Bear Blog platform with customization options for design and layout.
- **Technologies:** HTML, CSS and JavaScript.

**bettermailto**

[github.com/y-arjun-y/bettermailto](https://github.com/y-arjun-y/bettermailto)

- Created an enhanced `mailto` link generator that enables the end user to choose an email client of choice.
- **Technologies:** React.js, Next.js, OAuth and MongoDB.

**gallpeters**

[github.com/y-arjun-y/gallpeters](https://github.com/y-arjun-y/gallpeters)

- Implemented a tool for Gall-Peters map projection, providing an easy way to create a map that is unique compared to the typical Mercator Projection commonly used.
- **Technologies:** Python and Matplotlib.

**Liars in the Miller-Rabin Primality Test**

[github.com/y-arjun-y/liars-miller-rabin](https://github.com/y-arjun-y/liars-miller-rabin)

- Wrote a Python implementation of the Miller-Rabin primality test with the detection of liar numbers to facilitate research.
- **Technologies:** Python and Jupyter Notebook.

**youthree**

[github.com/y-arjun-y/youthree](https://github.com/y-arjun-y/youthree)

- Designed a website dedicated to displaying the unemployment rates (U1-U6 & LU1-LU4) of the United States and the United Kingdom.
- **Technologies:** React, Node.js, Express and MongoDB.

## Skills & Volunteering

**AI & Math:** AI Safety (Center for AI Safety), Machine Learning (Duke University), Linear Algebra, Multivariate Calculus and Principal Component Analysis (Imperial College London).

**Public Speaking:** Model United Nations (Best Delegate x2, Best Speaker, Outstanding Delegate) and COP 28 Majlis Programme.

**Effective Altruism:** Along with EA Manchester and EA UAE, facilitated EA Virtual Programs' In-depth program, and was accepted to and attended EAGxOxford in Mar 2022.

**Volunteering & Environmental Awareness:** Managed and volunteered at Iftar distributions, environmental awareness flash mobs and relief campaigns as part of Opportunities to Expand (OptX), DPS Sharjah's Environment Club and the Emirates Red Crescent.

**Writing:** Lead an active blog on [arjunyadav.net](https://arjunyadav.net) and was formerly a beta-reader for Holden Karnofsky.

**Technologies:** Python, JavaScript (React.js & Next.js, Express), Java, Verilog, Assembly (RISC-V) and MongoDB.