

# Gabriel Mukobi

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## **Summary:**

Researcher, engineer, and leader passionate about research, governance, and field-building to reduce risks from advanced AI systems. Experienced in machine learning research, software engineering, and leadership in both small-team and large-company environments.

## **Experience:**

**Technology and Security Policy Fellow, RAND Corporation** - Apr 2024–Present - Washington, DC - [rand.org](https://rand.org)

Informing and improving US AI governance decision-making and policy through research.

**Technical AI Safety Research Fellow, Existential Risk Alliance** - Jul 2023–Sep 2023 - Cambridge, UK - [erafellowship.org](https://erafellowship.org)

Led self-directed technical research benchmarking cooperative AI capabilities with language model agents in multi-agent environments; also a Krueger AI Safety Lab Intern.

**Gameplay Engineering Intern, Respawn Entertainment** - Jun 2022–Sep 2022 - Remote - [ea.com](https://ea.com)

Engineered core gameplay and AI features on Respawn's unreleased Star Wars first-person shooter title.

**Gameplay Engineering Intern, Riot Games** - Jun 2021–Sep 2021 - Remote - [riotgames.com](https://riotgames.com)

Designed and implemented core features as a Software Engineering Intern on the gameplay team of [2XKO](https://2xko.com) (prev. Project L).

**Research Programmer Intern and Tools Programmer Intern, Epic Games** - Jun 2020–Jan 2021 - Remote - [unrealengine.com](https://unrealengine.com)

Created deep reinforcement learning samples, a machine learning plugin, and virtual production tools in Unreal Engine.

**Google Engineering Practicum Intern, Google Cloud Platform** - Jun 2019–Sep 2019 - Seattle, WA - [github.com/knative-portability](https://github.com/knative-portability)

Developed full-stack [open-source applications](#) as proof of portability for [Knative](https://knative.dev), a platform for serverless containerized workloads.

## **Selected Projects:**

**Escalation Risks from Language Models in Military and Diplomatic Decision-Making** - Oct 2023–Jan 2024 - [Paper](#), [GitHub](#)

Co-first author. Evaluating the risks from autonomous language model decision-makers in escalating international conflicts. Accepted to ACM FAccT 2024, MASEC NeurIPS 2023 workshop (spotlight).

**Welfare Diplomacy: Benchmarking Language Model Cooperation** - Jun 2023–Sep 2023 - [Paper](#), [GitHub](#)

First author. Multi-agent LLM evaluations in a novel general-sum variant of Diplomacy that better incentivizes and measures cooperation. Accepted to the SoLaR NeurIPS 2023 workshop, in review at ICML 2024.

**SuperHF: Supervised Iterative Learning from Human Feedback** - Jan 2023–Sep 2023 - [Paper](#), [GitHub](#)

First author. Alternative to RLHF using supervised learning instead of RL. Accepted to the SoLaR NeurIPS 2023 workshop.

**Towards Societal AI Resilience** - Jan 2024–May 2024 - Forthcoming

Co-first author; work in progress. Strategy research for adapting society to risks from advanced AI systems. Work done through the [Astra Fellowship](#) with mentorship from [Lennart Heim](#).

## **Skills:**

**Artificial Intelligence** - [software.gabrielmukobi.com/ai](https://software.gabrielmukobi.com/ai)

AI safety, NLP, AI governance, evaluations, ML, DL, foundation models, research mentorship. Languages: Python.

**Software Engineering** - [software.gabrielmukobi.com](https://software.gabrielmukobi.com)

Product management, documentation, testing, bug reporting, code review, CS, VCS, [GitHub](#), [GitLab](#). Languages: Python, C++, C#.

**Web Development** - [software.gabrielmukobi.com/web](https://software.gabrielmukobi.com/web)

Full-stack, web design, cloud computing, databases, Docker containerization. Languages: JavaScript, Node.js, Python, HTML.

**Game Development** - [software.gabrielmukobi.com/games](https://software.gabrielmukobi.com/games)

Unreal Engine, Unity, gameplay programming, tools, virtual reality, 3D modelling, computer graphics. Languages: C++, C#, Python.

## **Education:**

**University of California, Berkeley** - Ph.D. Computer Science - Aug 2024–Future

Incoming PhD student. Advised by [Jacob Steinhardt](#) and [Dawn Song](#).

**Stanford University** - M.S. Computer Science - Sep 2023–Mar 2024, B.S. Computer Science - Sep 2018–Dec 2023 - Cum GPA: 4.01

[Stanford AI Alignment](#) Founder and President 2022–24. Coursework in AI/ML, Computer Systems, Graphics, Algorithms, and Theory.