Gatlen Culp

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Education

BS **Massachusetts Institute of Technology**, Computer Science with a concentration in AI & Decision Making w/ Minor in Economics — Cambridge, MA — Sept 2021 – May 2026

Experience

AI Evaluations & Software Engineering Contractor — Remote
Model Evaluation and Threat Research (METR) — Sept 2024 – present

Vivaria • Homebrew • Eval Templates

- Developed CLI tools, evaluation templates, and installers for Vivaria, a platform used by METR to conduct AI capability and risk evaluations in partnership with OpenAI, Anthropic, and US/UK AI safety institutes
- Enhanced documentation for rapid adoption and created a Python-based unified installation system replacing legacy shell scripts
- Improved reliability and maintainability while adhering to project standards with comprehensive testing suites and technical documentation

DevOps & Full Stack Engineer — Cambridge, MA
MIT Computational Biology Lab — June 2024 – Aug 2024

MantisAI Data Visualization Team • Website

- Engineered NetworkX-based graph visualization system and DevOps infrastructure for MantisAI, a Django web platform for interactive text and data analysis
- Architected CI/CD pipeline with GitHub Actions, Docker, and AWS deployment with robust security controls
- Led PostgreSQL migration alongside comprehensive code and documentation refactoring
- Identified critical security vulnerabilities requiring remediation

Director of Operations — Cambridge, MA
MIT AI Alignment (+ Harvard AI Safety Team) — Feb 2023 – Nov 2024

MopMan • Public Resources

- Led operations for 300+ people across 36+ programs, managing facility logistics, interior design, digital infrastructure, and program operations
- Created MopMan automation tool, saving 10 hours/week across 3 AI safety groups
- Halved expenses via office relocation while maintaining quality standards
- Oversaw management of Amazon Web Services for MAIA and HAIST, supporting research in fine-tuning large language models

Machine Learning Researcher — Berkeley, CA & Cambridge, MA
Stanford Existential Risks Initiative & MIT Algorithmic Alignment Group — June 2022 – Oct 2022

CommonClaim Dataset

- Developed RL fine-tuning technique for GPT-2 to autonomously identify diverse prompts resulting in harmful model outputs (violence, disinformation, etc.)
- Trained models, built evaluation pipeline, and created survey resulting in the CommonClaim dataset of 20,000 boolean statements
- Published research paper Explore, Establish, Exploit: Red Teaming Language Models from Scratch

Full Stack Web Developer — Cambridge, MA
MIT's Civic Data Design Lab (CDDL) — May 2022 – June 2022

- Delivered a full-stack web platform and WhatsApp interface in under three weeks
- Implemented contribution form web page with React, SASS, REST API, and Node
- Created WhatsApp informational messaging interface with Twilio
- Developed script to compress image sizes on MongoDB

Executive Officer — Cambridge, MA
Effective Altruism MIT — Dec 2021 – May 2022

- Connected students with impactful careers and raised awareness on neglected global issues
- Gave presentations, managed office, and executed educational and philosophical programs
- Responsible for four to twelve significantly altered career plans

Founder & Tech Care Specialist — Sarasota, FL
Culp Computer Services LLC — June 2020 – Aug 2021

Facebook

- Founded a small-scale business offering personal computer solutions from home theater to computer repair
- Provided specialty care and service to around two dozen clients
- Imaged ~30 laptops, recovered files, and fixed various devices

Manager, Assistant Manager, & Software Manager   Sarasota, FL
Jungle Robotics FRC Team 3627   Sept 2017 – Aug 2021

Instagram

- Led three junior programmers in coding a 125lb robot for competition
- Oversaw administration of the 20-person team including fundraising, workshops, marketing, CAD, and construction of the robot
- Doubled team membership and taught STEM through local youth programs

Projects

OpenGesture

OpenCV app running a custom keyboard or mouse input using the number of fingers captured

UN Heritage Website

Delivered a full-stack web platform and WhatsApp interface in under three weeks with team

Transformative AI

33-minute-long technical article on the trajectory and impacts of AI

High School Achievements

Florida TSA Programming (2nd, 3rd place) and HiMCM Math Modeling (Meritorious)

Pine View Support Group

Optimized 300+ students' studying experience by pooling a network of students and school resources

MantisAI DevOps Engineer   MIT Computational Biology Lab
Engineered NetworkX-based graph visualization system and DevOps infrastructure for MantisAI   Jan 2023 – Dec 2023

- Architected CI/CD pipeline with GitHub Actions, PyTest, Docker, and AWS deployment with robust security controls
- Led PostgreSQL migration alongside comprehensive code and documentation refactoring
- Created technical demonstrations and identified critical security vulnerabilities requiring remediation

LLM Red Teaming Research   MIT
Research project on autonomous discovery of problematic model behaviors   June 2022 – Oct 2022

- Published paper Explore, Establish, Exploit: Red Teaming Language Models from Scratch
- Code repository at GitHub
- Created the CommonClaim dataset at GitHub

Skills

Technical Skills: Deep Learning w/ PyTorch, AWS (Certified Practitioner), Project & Operations Strategy, Algorithms, Python
Creative & Development: Adobe Suite, Demos & Documentation, Full-Stack Development and DevOps, Entrepreneurship, Economics & Policy

Certifications and Awards

- AWS Certified Cloud Practitioner, Amazon Web Services (AWS), Dec 2023 - Dec 2026
- Autodesk Certified User - Inventor
- OSHA 10-Hour General Industry, CareerSafe Online, Feb 2020
- State-Level Competitive Programming Awards (2nd and 3rd place), Technology Student Association, 2018-2019
- 'Meritorious' Award, High School Math Contest in Modeling (HiMCM)
- TryHackMe Badges and Experience

Test Scores

- SAT - 1520/1600, 2020
- ACT - 34/36, 2020
- SAT Subject Tests - Math Level 2 (800/800), Physics (800/800), 2020

Extracurricular Activities

- Pine View Support Group - Optimized 300+ students' studying experience by pooling a network of students and school resources