



# Kyle Williams

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<https://kawcco.com>

## WORK EXPERIENCE

5 FEB 2024 – CURRENT Cambridge, MA, United States

### NUCLEAR RESEARCHER, COMPUTER VISION SCIENTIST MASSACHUSETTS INSTITUTE OF TECHNOLOGY

- member of second cohort of [Fusion Undergraduate Scholars](#) program
- "Find the Precipitates:" aiming to significantly speed up materials research for reactor parts with computer vision automation written in MATLAB

**Business or Sector** Professional, scientific and technical activities |

**Department** MIT Plasma Science and Fusion Center | **Email** [info@psfc.mit.edu](mailto:info@psfc.mit.edu) |

**Website** <https://www.psfc.mit.edu/fusars>

25 SEP 2023 – 14 DEC 2023 Cambridge, MA, United States

### CLIMATE ENGINEERING RESEARCHER, DATA SCIENTIST MASSACHUSETTS INSTITUTE OF TECHNOLOGY

- led re-write of interactive EN-ROADS-inspired dashboard for understanding the climate effects of MIT's HVAC systems
- implemented systems for robustly enforcing code readability, portability
- created and moderated Slack server to mediate communication between team members
- helped to onboard new members
- learned Dash, Plotly libraries

**Business or Sector** Information and communication | **Department** MIT D-Lab | **Website** <https://d-lab.mit.edu/>

8 JAN 2024 – 26 JAN 2024 Cambridge, MA, United States

### COMPARATIVE MEDIA RESEARCHER, FILM PRODUCER MASSACHUSETTS INSTITUTE OF TECHNOLOGY

- assisted with various technical components of "[retroduction](#)" short film
- implemented Game of Life in Excel 7 using Visual Basic for Applications
- wrote scripts to download thousands of wallpapers for intro sequence
- culminated in an in-progress technical report on Excel work
- scouted and referred new team members

**Business or Sector** Arts, entertainment and recreation | **Department** Trope Tank | **Website** <https://tropetank.com/>

31 AUG 2023 – 14 DEC 2023 Cambridge, MA, United States

### EDUCATIONAL WRITER MASSACHUSETTS INSTITUTE OF TECHNOLOGY

- wrote, edited large parts of [MIT online electronics/creative computation seminar](#)
- designed parts of course
- created code, video, diagrams
- asynchronously communicated with manager Cambridge

**Business or Sector** Information and communication | **Department** MIT Admissions |

**Website** <https://mitadmissions.org/>

4 JUN 2023 – 17 AUG 2023 Marlborough, Massachusetts, United States

## ASSISTANT TO HEAD OF ENGINEERING STREAMFORGE

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- Return offer from previous year's internship
- Worked on implementing numerous exploratory AI products for clients to gain better insight on advertising effectiveness
- Reverse-engineered TikTok API to implement new collection of microservices
- Worked with various AI/database tools
  - OpenAI Embeddings
  - Anthropic Claude
  - Supabase
  - pgvector
  - Weaviate

19 JUN 2022 – 25 AUG 2022 Marlborough, Massachusetts, United States

## ASSISTANT TO HEAD OF ENGINEERING STREAMFORGE

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- Reverse-engineered hidden web APIs to write, and maintain numerous Node.js microservices
  - Steamworks
  - YouTube
  - Twitch
  - Protocol Buffers
- Worked on two Vue.js frontends
- Interacted with MongoDB, RabbitMQ
- Designed future data aggregation and notification systems

**Business or Sector** Information and communication | **Department** Engineering & Product |

**Website** <https://streamforge.com/>

20 JUN 2021 – 3 AUG 2021 Brooklyn, United States

## ASSISTANT TO CHIEF OF STAFF NEW YORK SENATOR JABARI BRISPORT

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- Attended and took notes at numerous meetings
- Helped to find possible locations for outreach event, automate bill research using technology and programming; was later commissioned to create a web interface for bill research script in June 2022
- Filled out numerous spreadsheets with Google Sheets, Airtable
- Created a healthy relationship with NYS Senate Developer Team

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**Website** <https://www.nysenate.gov/senators/jabari-brisport>

## ● EDUCATION AND TRAINING

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SEP 2023 – CURRENT Cambridge, Massachusetts, United States

### BACHELOR'S DEGREE CANDIDATE (SEPTEMBER 2023 - JUNE 2027) Massachusetts Institute of Technology

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**Website** <https://mit.edu> | **Field of study** Information and Communication Technologies

## ● LANGUAGE SKILLS

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Mother tongue(s): **ENGLISH**

## ● DIGITAL SKILLS

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### Computer programming (advanced)

Python | HTML | Bash | TypeScript | Svelte | JavaScript | SQL | Java

### Computer programming (intermediate)

CSS | Rust | C | Go

## **Database technologies**

SQLite | Dolt | MongoDB | PostgreSQL

## **Computer programming (beginner)**

Wolfram Language + Wolfram Mathematica

## **System administration**

Linux | Docker | Git | systemd

## **Areas of study**

Computational linguistics: syntax, grammar, semantics | Programming languages | Type systems |  
Compilers | Interpreters | Graph theory | Set theory | Databases | User experience | Data science |  
Computational music theory | Comparative media | Climate action | Nuclear science | Computer vision