



# Kyle Williams

**Nationality:** American | **Gender:** Male | **Email address:**

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## WORK EXPERIENCE

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

### ASSISTANT TO HEAD OF ENGINEERING STREAMFORGE

- 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

- 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

- 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>

31 AUG 2023 – CURRENT 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/>

- 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
- learned Dash, Plotly libraries

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

● **EDUCATION AND TRAINING**

JUL 2023 – CURRENT Cambridge, Massachusetts, United States  
**BACHELOR'S DEGREE CANIDATE (SEPTEMBER 2023 - JUNE 2027)** Massachusetts Institute of Technology

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

● **LANGUAGE SKILLS**

Mother tongue(s): **ENGLISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>SPANISH</b>	A1	A1	A1	A1	A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

● **DIGITAL SKILLS**

**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 administraiton**

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