

Raphael Bessin

+1 (845) 287-6234 | bessin.r@northeastern.edu | github.com/rbessin | linkedin.com/in/raphael-bessin

EDUCATION

Northeastern University

Boston, MA

Bachelor of Science in Computer Science (Honors)

Sep. 2025 – May 2029

- GPA: 4.0/4.0 | Dean's List: Fall 2025 | John Martinson Honors Program
- Relevant Coursework: Object-Oriented Design, Algorithms & Data, Discrete Structures

French American School of New York

New York, NY

High School Diploma & International French Baccalauréat

Sep. 2015 – June 2025

- Ranked 1st in grade | Mention Très Bien (Highest Honors) | High Honors Math & Physics, Expert Math

EXPERIENCE

Northeastern Electric Racing

Boston, MA

Web Developer

Fall 2025 – Present

- Building an automated Docusaurus documentation site processing SKILL.md files, serving 30+ developers
- Built cross-project material copying and inline creation to streamline bill of materials workflow across 100+ parts
- Developing reimbursement and procurement features using React, TypeScript, and Prisma for 50+ team members

Greycroft

New York, NY

Venture Capital Intern

June 2024

- Attended live deal meetings with portfolio candidates, gaining direct exposure to investment evaluation
- Conducted a gene editing market analysis to identify emerging investment opportunities in the biotechnology sector

PROJECTS

CurbYourCarbon | *Chrome Extensions API, Performance API, ElectricityMap API, JavaScript*

2026

- Won Social Impact & Sustainability category at HackBeanpot in a 24-hour hackathon
- Built Chrome extension using the Performance API to track real-time network data consumption and estimate device energy usage from UserAgent and screen dimensions
- Integrated ElectricityMap API with browser geolocation to compute location-specific CO₂ emissions, surfacing per-platform breakdowns and recommendations in a live dashboard

Signal Relay | *Godot, GDScript* | github.com/rbessin/signal-relay

2025

- Built a digital logic circuit simulator in Godot supporting 8 gate types including sequential logic (D flip-flop), real-time signal propagation, and an infinite interactive canvas
- Implemented a component abstraction system allowing users to save circuits as reusable custom gates, with full JSON serialization for circuit persistence

Stride Editor | *Next.js, TypeScript, Quill.js* | github.com/rbessin/stride-editor

2025

- Built a text editor with predictive text using a fourgram model with trigram, bigram, and unigram fallback, trained on 10 books from Project Gutenberg
- Implemented rich text editing with Quill.js, local file management via the File System Access API

The Ocean Scout | *Next.js, Firebase, The Orange Alliance API* | github.com/rbessin/the-ocean-scout

2022 – 2024

- Top 16 at FIRST Robotics World Championships out of 8,000+ teams as web developer and outreach coordinator
- Built a collaborative scouting platform integrating The Orange Alliance API with real-time Firebase data

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript/TypeScript, GDScript, C#, SQL, HTML/CSS

Frameworks & Libraries: React, Next.js, Express.js, Django, Prisma, Quill.js

Databases & Tools: PostgreSQL, MongoDB, Firebase, Git, Figma, Godot, Unity, Vercel

Spoken Languages: French (native), English (native), German (proficient)

Interests: Travel (lived in Japan, England, USA), Hiking, Running, Video Games, Reading, Chess