

# Colin Levine

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Portfolio: <https://colin.tools> LinkedIn: </colinlevine> GitHub: </colinlevine>

## EXPERIENCE

**Microsoft | Explore Internship** (*Software Engineering and Product Management*)

**Redmond, WA**

*Microsoft AI | Edge Consumer*

*Summer 2024*

- I played a pivotal role in enhancing features that impact **hundreds of millions of users** globally. One of my main contributions was improving the Edge sidebar's functionality in multiple languages, significantly **optimizing a crucial file used by both the Edge sidebar and Windows Copilot**. This optimization achieved an impressive **83% reduction in CDN costs** for asset delivery and **enhanced browser launch times by 3-4 seconds** on P90 and P95 devices. I was deeply involved in every phase of the project, from drafting the initial product management specifications to the engineering implementation, utilizing **C++ and Python**. I collaborated with engineers across three continents to refine and enhance a feature that reaches a vast worldwide user base. Additionally, I contributed significantly to the development of a yet-to-be-released Edge browser feature, focusing on front-end UI bug fixes with **TypeScript** and back-end/client-side changes with C++, collaborating with UI/UX designers, product managers, and software engineers to deliver on the product.

## EDUCATION

**The University of Texas at Dallas**

**Richardson, TX**

*Bachelor of Science – Computer Science with Economics Minor*

*Fall 2024 – Spring 2026*

**Texas A&M University**

**College Station, TX**

*Bachelor of Science – General Engineering/Computer Science*

*Fall 2022 – Spring 2024*

### Leadership Roles

*Freshmen Reaching Excellence in Engineering*

*Fall 2022 – Spring 2024*

- FREE is a prestigious Freshman Leadership Organization at Texas A&M University made of **only 80 students**, focused on **fostering leadership skills and academic excellence** among engineering students. As a Freshman, I contributed to the organization's success through merchandise production and social media management. From Fall 2023 to Spring 2024, I was a “Big” in the organization, working to **mentor and guide incoming freshmen** in their transition to college life.

*Aggie Coding Club*

*Fall 2023 – Summer 2024*

Marketing Officer (Spring 2024 – Summer 2024)

- I spearheaded numerous initiatives to enhance the club's digital presence and community engagement. My primary responsibilities included **optimizing the club's website for both mobile and desktop devices**, ensuring a seamless user experience across all platforms. I implemented various improvements to maintain the website's relevance and updated it regularly with new information pertinent to club activities and coding resources. In addition to my web development duties, I played a key role in the club's social media outreach, **designing engaging Instagram posts** to promote upcoming club meetings and events.

## TECHNICAL SKILLS

- TypeScript/JavaScript – React, Next.js, Node, Express, Prisma
- Python – TensorFlow, Keras, NumPy, SymPy, Matplotlib
- OpenAI and Anthropic APIs
- CSS – Tailwind, Bootstrap
- C++, C#, Java - Android Studio
- Google Cloud, Microsoft Azure
- Stripe API
- PostgreSQL, Supabase
- Figma, Adobe Creative Cloud, Autodesk Inventor, MS Office

## RECENT PROJECTS

**Flashback** – Next.js, Azure, Vercel, Supabase (PostgreSQL), Anthropic, Stripe, Notion

*Spring 2024 – Present*

- Flashback is your **AI study partner that turns any course material into memory-boosting study sessions**, converting Notion pages, text inputs, PDFs, and YouTube videos into flashcards. It also generates multiple-choice quizzes and features a **chatbot with text-to-speech and speech recognition for interactive studying**. Built on Next.js with Stripe for payments, Supabase for PostgreSQL, and hosted on Azure and Vercel, it launched in January 2025 and is now used internationally. It has been featured on websites like *There's an AI for That*, *Automated*, and *HuntScreens*, with 2,300+ organic impressions on X from others discussing the product. Along the way, I gained **software engineering knowledge and business experience in social media advertising, email marketing, customer acquisition, filings, and international tax strategy**.

**Music Generation Model** – Python | TensorFlow, Keras, NumPy

*Spring 2024*

- Trained on a dataset comprising 13,000 lines of classical music, the model utilizes **Long Short-Term Memory neural network architecture** to capture intricate patterns and structures present in musical compositions. The model generates music as text that is seamlessly converted to MIDI format and synthesized into a grand piano WAV file.