

# Ibiyemi Abiodun

Brooklyn, NY

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## Education

**Cornell University** • Ithaca, NY

graduated May 2023

*B.Sc.* in Computer Science; *B.Sc.* in Electrical & Computer Engineering  
*Neo Scholar*; *Rawlings Presidential Research Scholar*

## Experience

### Open Source Engineer

Feb 2019 - present

- › Contributed bug fixes and new features to several open source projects in Rust and React Native
- › Developed [jsi-rs](#), allowing high-performance native integration between Rust modules and React Native applications (*Rust, React Native, C++*)
- › Developed [bluez-rs](#), a Rust wrapper for low-level Linux Bluetooth APIs (*Rust, Linux*)
- › Launched [ShareBRB](#), a website where Cornell students share dining plans (*Node, React, TypeScript*)

### Software Engineering Lead, Ditto.fyi (startup)

Jan 2023 - Aug 2023

- › Pioneered custom tools for web scraping, data annotation, and indexing (*Rust, Docker, AWS, Python, Grafana, Prometheus*)
- › Authored federated backend for customizable social media sites (*Rust, Docker, AWS, Postgres*)
- › Designed and deployed cross-platform mobile app (*React Native, TypeScript, Figma, Expo*)

### Full Stack Imaging Engineer, Cornell University Unmanned Air Systems

Oct 2019 - May 2023

- › Developed mission-critical control software for cameras on unmanned aircraft (*Rust, C++, Docker*)
- › Worked closely with a team of over 50 engineers and designers to bring unmanned aircraft to competition success
- › Created internal applicant tracking system, saving 100s of man-hours during fall recruitment (*Node, React, TypeScript, Figma, Postgres, Prisma, Webpack*)
- › Overhauled team website to reduce time required to push updates by 90% (*Node, React, TypeScript*)
- › Centralized critical documentation to aid in quickly onboarding new team members
- › Maintained infrastructure including internal chat software, internal hardware and software documentation, [website](#), CI/linting, and email server (*Node, React, Postgres, Nginx, Linux, Bash*)

### Data Engineering Intern, Neeva

May 2022 - Aug 2022

- › Improved indexing pipeline to detect ads in web pages and deliver enhanced search experiences by helping users block ad-heavy results (*Go, Python, Apache Spark, Kubernetes*)

**Student Researcher**, Cornell Future of Learning Lab Mar 2020 - Nov 2021

- › Created gamified computer science placement exam as part of a research experiment (*Node, React, TypeScript, Python, Pandas, DataDog, Google Cloud / GCP, Webpack*)

**Full Stack Engineering Intern**, Neeva May 2021 - Aug 2021

- › Elevated personal search experience by adding filters (ex.: by author) and widgets to allow users to get more precise and immediate results (*Go, TypeScript, React, Kubernetes, AWS*)

**STEP Intern**, Google May 2020 - Aug 2020

- › Created a tool to import, analyze, and visualize listening history data from Spotify (*TypeScript*)

## Projects

**Spotify Codes scanner** Summer 2023

- › Devised a program capable of scanning Spotify Codes using a webcam or the Raspberry Pi Cam (*Python, OpenCV, Rust*)

**whisper-rs** Winter 2022

- › Adapted OpenAI's reference Python implementation of the Whisper speech-to-text model to Rust, resulting in improved speed, efficiency, and system integration (*Rust, PyTorch, C++*)

## Coursework

**Digital Systems Design Using Microcontrollers**, ECE 4760 Fall 2022

- › Created an RP2040-based "keyboard" where the input is the sound of an instrument ([video](#)) (*C, C++*)

**Embedded Systems**, CS 3420 Spring 2021

- › Produced a prototype real-time operating system for the STM32F4 (*Rust, C*)
- › Created a Tetris video game controller using the STM32F4 (*Rust, C*)

**Microelectronics**, ECE 3150 Spring 2021

- › Quantified behavior of low-level microelectronic devices (ex.: transistors) (*Tektronics oscilloscopes*)

**Other Skills:** Java (Android, server), Objective-C (iOS), Swift (iOS), OpenGL, Vulkan, GraphQL, Vue, C#

**Other Courses:** Machine Learning, Computer Graphics, Embedded OS, Digital Logic, Algorithms