

Anthony Previte

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Summary

Full-stack developer with 2 years of experience designing and building responsive web applications and hardware integrated systems. Strong foundation in React, TypeScript, and RESTful APIs, with hands-on experience in both front-end and back-end development. Passionate about immersive, interactive technology and building software experiences in team environments.

SKILLS

- **Languages:** TypeScript, HTML, CSS, SQL, Python
 - **Frameworks/Libraries:** React, Next.js, Tailwind CSS, Supabase, Node.js
 - **Tools:** Git, Figma, Arduino
 - **Concepts:** RESTful APIs, Hardware Prototyping
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WORK EXPERIENCE

Raytheon *Full Stack Software Engineering Intern*

Marlborough, MA | Jun 2024 - Aug 2024

- Designed and implemented a MATLAB GUI to replace CLI-based diagnostics for digital receivers, improving usability.
- Enhanced CLI-based error handling in C, improving system reliability and clarity.
- Contributed to Linux automation tools to streamline development processes.
- Managed source code versions with Git and ClearCase in a collaborative, multi-engineer environment.

Raytheon *Digital Hardware Design Electrical Engineering Intern*

Tewksbury, MA | Jun 2023 - Aug 2023

- Designed schematics for Circuit Card Assemblies (CCA) with Xpedition Designer used in waveform simulation systems.
- Developed VHDL firmware to simulate real-time signals with FPGAs for hardware testing.
- Ran hands-on lab tests and worked with radar hardware components.
- Held U.S. Security Clearance for work on sensitive systems.

Empatix Consulting *Business Consultant Intern*

Andover, MA | May 2022 - Aug 2022

- Conducted research and designed client surveys to provide actionable insights using Recollective and Qualtrics to support data-driven consulting.
 - Participated in and facilitated strategic client interviews and compiled findings into clear reports.
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EDUCATION

Worcester Polytechnic Institute (WPI)

Bachelor of Science, Computer Science | Minor in Electrical and Computer Engineering

Aug 2021 - May 2025 | GPA 3.9

- Graduated with High Distinction.
- Dean's List: Fall '21, Spring '22, Fall '23, Fall '24.
- Captain: Varsity Soccer & Club Hockey | 3x NEWMAC Academic All-Conference.

PROJECTS

Keyboard Labels - *Music Producer Development Prototype*

Aug 2024 - Nov 2024

- Built a dynamic hardware interface for music creators using Arduino and LCD displays, enabling real-time relabeling of piano keys.

- Designed a Python-based GUI that allowed users to assign custom text to each key, supporting flexible workflows for live looping and beat production.

- Designed the system as a rapid prototype for enhancing physical-digital feedback in creative environments.

Shared To Do - Full-Stack Collaborative To-Do List App

Jul 2025 - Aug 2025 | [visit](#)

- Built a multi-user web app for real-time task collaboration and assignment across groups using Next.js and Supabase.
- Implemented features like inviting, task claiming, and permissioned editing.

Chip Count - iOS Poker Profit Tracker App

May 2025 - Jun 2025 | [visit](#)

- Designed and deployed a Swift app on the App Store.
- Used Core Data to persist chip counts and session statistics.

Cool Routes - Pedestrian Navigation App

Aug 2024 - May 2025 | Worcester, MA | [visit](#)

- Developed a location based walking app using a RESTful API with Flask powered by ArcGIS.
- Focused on mobile-friendly UX and thermally optimized route displays.

International Consulting Project - Merton Connected

Jan 2024 - May 2024 | London, UK

- Conducted field interviews and data collection to improve corporate employee volunteering schemes in partnership with a local non profit in a 3 person team.
- Delivered recommendations through stakeholder reports and public presentations.

PUBLICATIONS

- Cool Routes: Advancing Climate Resilience in Worcester - WPI, Apr 2025 | [visit](#)
- Promoting Employee Volunteering Schemes in Merton - WPI Apr 2024 | [visit](#)