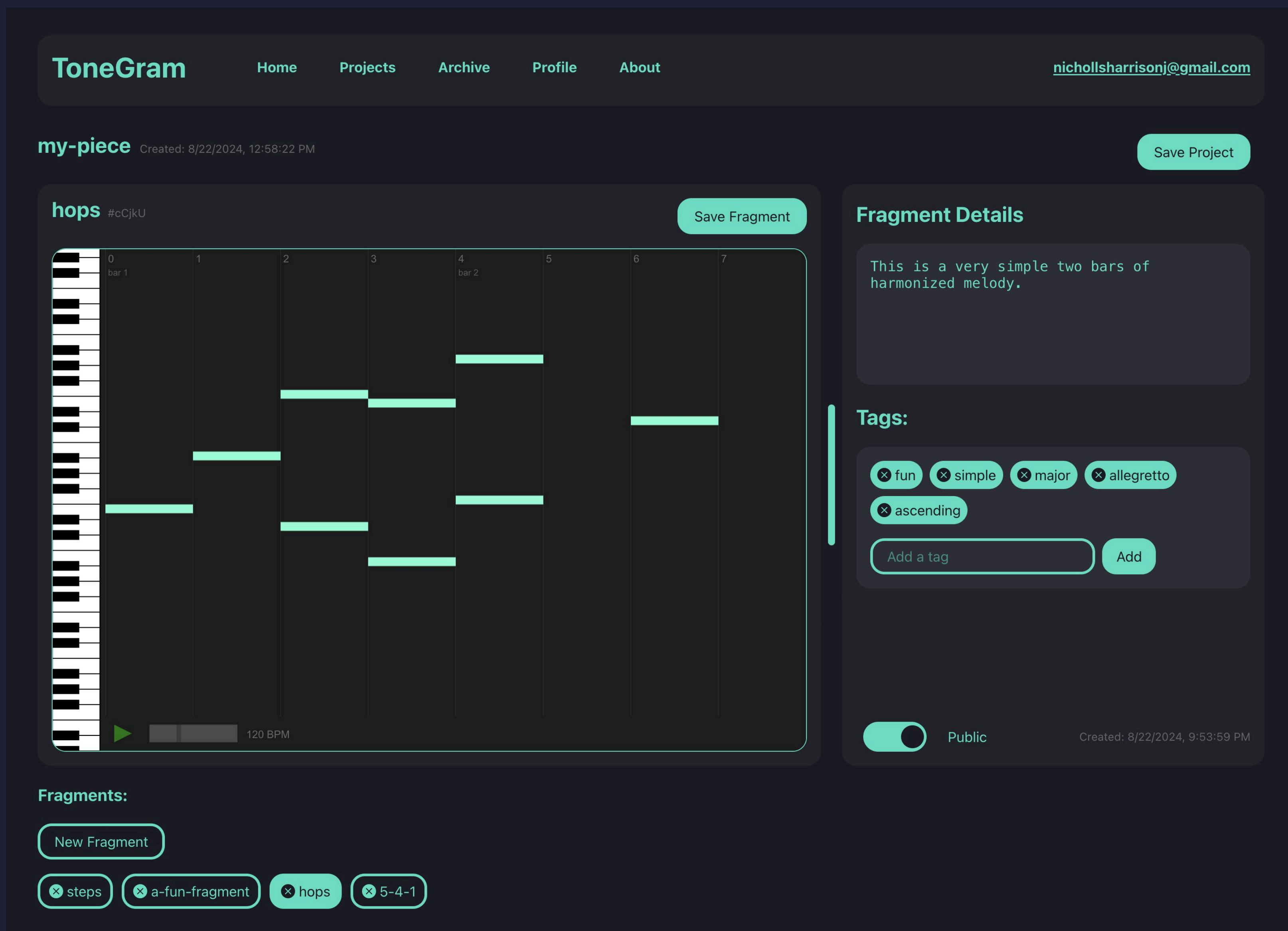


ToneGram



What is ToneGram?

ToneGram is a tool for composers and musicians who want to create music with structure and intent — without outsourcing creativity to the ‘probabilistic ML model’ class of AI. Instead of skipping straight to generating audio through black-box models, Tonegram provides a platform for users define recursive musical grammars along with hand-composing musical fragments to shape their compositions or act as a creativity tool. By assembling MIDI fragments within a rule-based system, musicians can experiment, iterate, and collaborate while maintaining full artistic ownership. This approach doesn’t replace musicians; it empowers them with computational tools that respect the creative process.

Key Features

MIDI Fragment System – Users create and store musical ideas (“fragments”) in a shared public archive. Grammar-Based Composition – Allows structured arrangement of fragments into full pieces. User Profiles & Projects – Save and organize work in a collaborative environment. Cloud Integration – Built with Google Cloud’s Firebase Firestore and Firebase Auth for user data and real-time sync. Web-Based Interface – Developed in React + TypeScript for a smooth, interactive UI.

Tech Stack

Frontend: React, TypeScript, Zustand (state management). Backend: Firebase Firestore (database), Firebase Auth (user authentication). Development on Vite.

Current Status & Next Steps

ToneGram is currently in a private development phase, with core features being rebuilt and refined with a slightly altered stack. The next steps include improving the composition workflow, adding export features, and enhancing the UI. I have recently brought a long-term collaborator onboard!