Fanbo Xiang

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EDUCATION	University of Illinois at Urbana Champaign , Champaign, IL Bachelor's degree in Computer Science dual degree in Mathematics May 2018
	 Cumulative GPA: 4.0/4.0 Computer Science Coursework CS440 Artificial Intelligence CS418 Interactive Computer Graphics CS241 System Programming CS450 Numerical Analysis A+ CS374 Models of Computation & Algorithms A+ CS374 Models of Computation & Algorithms A+ CS450 Numerical Analysis A+ Mathematics Honor Courses MATH416 Abstract Linear Algebra MATH427 Abstract Algebra MATH424 Real Analysis
ACADEMIC AWARDS	 Dean's List, Fall 2014 through Fall 2015, Division of General Studies James Scholar, Division of General Studies to College of Engineering Honorable Mention in UI Freshman Math Contest Sep 2014
EXPERIENCE	Computer Science Course Assistant, Champaign, IL ■ CS 125: Intro to Computer Science ■ CS 374: Intro to Algorithms & Models of Computation ■ Learn directly from professor and TAs how to effective teach students and explain complex topics. ■ Learn how to collaborate in a faculty team to teach and improve a course. Individual Projects, Champaign, IL
	 Chord Analysis Project https://github.com/fbxiang/music-analysis Learned basic music theories, Fourier Transform and probabilistic models. Applied the knowledge to estimate harmonic content in a music segment. Currently learning better machine learning models for music analysis. Search Plus Chrome Extension https://github.com/fbxiang/SearchPlus Recognized my inefficiency when interacting with Chrome. Designed a pop up window for multipurpose search in a document. Upgraded the search bar to a in-browser command window. Enabled customizing the popup and quick executing javascript to boost my efficiency. Sound Prediction from Video Research Project, Champaign, IL
	 Research Assistant, Instructed by professor Paris Smaragdis Did research on the basis of a physics engine and successfully built a simple 2-D physics engine from scratch. Learned and implemented a simple sound synthesizer to generate sound. Combined video and audio generation to prepare training data for collision model learning.
ACADEMIC ACTIVITIES	Association of Computing Machinery, SigMusic, Champaign, IL Active Member Jan 2015 – Present Contributed to interactive graphics and sound exhibits; received positive feedbacks at Engineering Open House. Applied my knowledge in music theories and algorithms to perform music generation. Participated in the entire work flow of these team projects. Designed interfaces to do communication and unification between programs written by different members.
SKILLS	Programming: Python, Java, Javascript, C++, C# , Ruby, C, HTML, Haskell,MATLAB,LaTeX Development: Git,Subversion,Eclipse,Visual Studio Operating Systems: Linux (Ubuntu), Windows Computer Game making: familiar with scripting systems of Unity3d and Unreal4.

INTERESTS Music theories and composing

• https://soundcloud.com/fanbo-xiang