

Fanbo Xiang

Present Address: 1007 W Clark St Apt 21, Urbana, Illinois 61801, USA
fxiang2@illinois.edu • +1 (217) 979-0754 •

EDUCATION

University of Illinois at Urbana Champaign, Champaign, IL

- Bachelor's degree in Computer Science
dual degree in Mathematics
 - Cumulative GPA: 4.0/4.0
- Personal Website: <https://fbxiang.github.io>
- Computer Science Coursework Completed

CS440 Artificial Intelligence	A+	CS412 Intro to Data Mining	A+
CS418 Interactive Computer Graphics	A+	CS421 Programming Languages	A+
CS241 System Programming	A+	CS374 Models of Computation & Algorithms	A+
CS450 Numerical Analysis	A+	CS446 Machine Learning	A
CS498 AI for Computer Games	A+	CS465 UI Design	A
- Mathematics Honor Courses

MATH416 Abstract Linear Algebra	A+	MATH427 Abstract Algebra	A+
MATH424 Real Analysis	A+		

Expected Graduation:
May 2018

EXPERIENCE

Search-Plus Chrome Extension, Champaign, IL

- Individual project
July 2016 – Present
 - <https://github.com/fbxiang/SearchPlus>
 - Built a customizable multipurpose search bar for chrome.
 - Enabled in-browser javascript execution and custom command system.

Mus-Rover, Champaign, IL

- Team project, Web developer
Dec 2016–Present
 - Participated in Mus-Rover project as the backend developer.
 - Focus on music data manipulation to create a web app for representation of music theories learned by algorithms.

UniInventory Unity 3d project, Champaign, IL

- Individual project, final project for CS 242 Programming Studio
August 2016 – Present
 - <https://github.com/fbxiang/InventoryDemo>
 - Implemented a programming friendly RPG style inventory system.
 - Designed the programming structure to support easy implementation of advanced item behaviors.

CUMTD-Assistant Android App, Champaign, IL

- Team coordinator, final project for CS 465 UI design
August 2016 – Present
 - <https://github.com/fbxiang/CUMTD-Assistant>
 - Work as the team coordinator in a group of 5 and discuss with the group about design decisions.
 - Finished the CUMTD-Assistant app capable of nearby bus stops look-up, real time bus schedule listing, bus stop search, real time bus position display, and trip planning.
 - Work as the main programming designer of the app. Design the structure of the pages, solve technical difficulties, and keep the group working smoothly.

Sound Prediction from Video Research Project, Champaign, IL

- Research Assistant, Instructed by professor Paris Smaragdīs
Feb 2016 –Jul 2016
 - Built a simple 2d physics engine from scratch using C++ for simulation and video generation.
 - Learned and implemented a simple sound synthesizer from scratch 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 knowledge in music theories and algorithms to perform music generation.
 - 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.