Yuren Xie

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Education

University of Illinois at Urbana-Champaign   Urbana-Champaign, IL

- ***Bachelor of Science,*** Computer Science and Statistics   May, 2020
- ***Bachelor of Science,*** Mathematics   GPA: 3.74/4.00

Related Coursework

Software Design Studio	System Programming	Database System
Data Mining	Applied Cloud Computing	Applied Machine Learning
Statistical Modelling	Statistical Computing	Numerical Methods

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Research Experience

- **Course Analysis Research,** Student Researcher   Summer, 2018 - Current
  - Characterized the students' general study process with the data gained from an online homework and exam system
  - Compared and contrasted students' study process of different semesters with different exam policy to see if and how second chance exams affect students' study behavior
  - Analyzed correlations between students' academic performances and their majors, attendance, and pre-requisite fulfilments from a dataset of 380 students' academic assessment of a course, to help professor improve the course design

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Projects

- **"ClassTranscribe" Website,** Back-end Developer   Fall, 2018 - Current
  - Implemented a real-time caption generator for lecture videos with Microsoft Translate API
  - Implemented video download from YouTube channels and Echo360 course lists
  - Designing a search engine which enables students to search specific section of lecture video by keywords.
- **Computer Science Concept Map,** Team Leader   Summer, 2018 - Current
  - Researched correlations between each computer science discipline and designed the relations diagram of undergraduate level computer science concepts
  - Designing a subway map showing the relationships between each computer science concept to help students navigate and plan their learning in computer science
- **Alexa-Skills,** Contributor   Summer, 2018
  - Implemented UIUC course explorer and UIUC bus system with **Alexa skills** APIs on Echo dots so that students can search courses and get the schedules of bus lines by using Amazon Echo
- **"MovieTeller" Website,** Front-end Developer   Spring, 2018
  - Made pages of a movie review aggregation website for users to post reviews and comments on movies
  - Designed customized report of the movie industry based on user's selections of input data

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Technology and Skills

- *Programming Languages:* Python, JavaScript, Java, C++, C, SQL, HTML, CSS, R
- *APIs and Frameworks:* **Node.js**, **D3.js**, PySpark, pandas, numpy, matplotlib
- *Skills:* **Amazon Alexa Skills**, Android, Git, Docker

Leadership

- **Indie and Console Game Fan Club,** Activity Organizer   Summer, 2017 - current
  - Organized the 3-day club trip activity of 2018 E3 Expo in Los Angeles