

Yuxuan Chen

GitHub/LinkedIn: Yuxuibbs | yuxuibbs.github.io | yuxuanc@umich.edu | (734) 546-9870

EDUCATION

University of Michigan School of Information

Ann Arbor, MI

Bachelor of Science in Information | Cumulative GPA: 3.44

April 2018

Concentration in Information Analysis (similar to Data Science)

Minor in Computer Science

SKILLS

Proficient: Python, MATLAB, C++

Working knowledge: HTML, CSS, JavaScript

Basic knowledge: Bash, SQL

Technologies/Frameworks: Tableau, Python Pandas, Numpy, SciPy, Seaborn, Bokeh, Flask, Jinja2, WTForms, SQLAlchemy

WORK EXPERIENCE

Software Developer

September 2017 - Present

Ann Arbor Academic Games (A2AG) and Michigan Leagues of Academic Games (MLAG)

Ann Arbor, MI

- Build an application that reduces the amount of manual labor for MLAG state tournaments by moving from paper forms to a website form and limiting the amount of duplicated information that is entered during registration
- Create a web application to reduce the amount of manual work for score taking during the MLAG State Tournament
- Create data visualizations and summary statistics that rank players within each school to help coaches decide team configurations for the Academic Games Leagues of America National Tournament

Software Development Research Intern

May 2016 - April 2018

University of Michigan, Department of Computational Medicine and Bioinformatics

Ann Arbor, MI

- Develop medical image processing software to detect hematoma and hemorrhage in CT scans
- Improve accuracy of stenosis detection software to determine whether a patient needs surgery
- Refine kidney segmentation software to identify abdominal trauma in CT scans

Software Development Contractor

June 2017 - September 2017

Ars Mentis LLC

Ann Arbor, MI

- Use industry tools to optimize a PHP code base to make the code easier to read and maintain
- Audit HTML, CSS, and Javascript for bad practices and resolve issues

C++ and Python Private Tutor

May 2016 - April 2017

Art Corner Studio

Ann Arbor, MI

- Taught fundamental programming concepts to an elementary school student by creating tailored C++ and Python lessons and assigning small projects such as a Chess simulator
-

SIDE PROJECTS

GitHub: Yuxuibbs

Academic Games Player: agplayer.herokuapp.com

- Build a front end interface for a solution finding application for the game LinguisHTIK using Python Flask, Jinja2, and WTForms for coaches and students to use as an educational tool

World Cube Association Database Statistics

- Use Python Pandas, NumPy, SciPy, Seaborn, matplotlib, IPython notebook, and Tableau to discover interesting statistics in the public World Cube Association database export

CubeToaster

- Build an open source tool for Rubik's cube competition organizers to automatically generate sorted documents that were previously created and sorted manually, saving competition organizers several hours of work before each competition

World Cube Association Website: worldcubeassociation.org

- Resolve database bugs by preventing database entries from disappearing when an individual with subordinates is removed from the database
- Implement procedures to prevent competition organizers from accidentally refunding a competitor's registration fee when organizers are updating a competitor's registration data