# Yuxuan Chen

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## EDUCATION

**University of Michigan School of Information**                                                       Ann Arbor, MI
**Bachelor of Science in Information**, Concentration in Information Analysis (similar to Data Science)       April 2018
**Minor in Computer Science** | Cumulative GPA: 3.44

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## SKILLS

**Proficient:** Python, MATLAB, C++                                   **Spoken Languages:** English (native speaker),
**Working knowledge:** HTML, CSS, Bash                          Mandarin Chinese (intermediate proficiency)
**Basic Knowledge:** SQL, Ruby, PHP, JavaScript

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## WORK EXPERIENCE

**Software Development Contractor**                                                        June 2017 - Present
*Ars Mentis LLC (arsmentis.com)*                                                              *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 resolved issues

**Software Development Research Intern**                                                     May 2016 - Present
*University of Michigan – Ann Arbor, Department of Computational Medicine and Bioinformatics*       *Ann Arbor, MI*
- Develop medical image processing software to detect hematoma and hemorrhage in CT scans
- Improve the accuracy of stenosis detection software to determine whether or not a patient needs surgery
- Refine kidney segmentation software to identify abdominal trauma in CT scans

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## OPEN SOURCE SIDE PROJECTS

**GitHub:** Yuxuibbs
**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

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## LEADERSHIP EXPERIENCE

**Competition Organizer, Competitor, and Speedcuber**                                         August 2010 - Present
*World Cube Association*                                                                       *Ann Arbor, MI*
- Coordinate large official worldwide Rubik's cube competitions every few months
- Increase competition attendance from 58 competitors to 240 competitors in less than two years
- Supervise and delegate tasks for 10-40 staff members to run strictly scheduled competitions

**Academic Games Head Coach, Assistant Coach, and Former Player**                        September 2007 - Present
*Academic Games Leagues of America, Michigan Leagues of Academic Games, Ann Arbor Academic Games*       *Ann Arbor, MI*
- Create lesson plans and mentor students from Clague Middle School and Thurston Elementary School to empower teams and individuals to win multiple events each year at local and national tournaments
- Train and supervise high school student volunteers