

Steven Xia

EDUCATION

University of Michigan College of Engineering, Honors Program	Ann Arbor, MI
<i>Bachelor of Science and Engineering in Computer Science: GPA: 3.94/4.0</i>	<i>April 2024</i>
Coursework: Data Structures and Algorithms, Database Management Systems, Web Systems, Advanced Operating Systems, Parallel GPU Programming, Theory of Computation, Computer Architecture	
University of Michigan Ross School of Business	Ann Arbor, MI
<i>Business Minor</i>	<i>April 2024</i>
Coursework: Accounting, Economics	

EXPERIENCE

University of Michigan, College of Engineering	Ann Arbor, MI
<i>Instructional Aide for EECS 484: Database Management Systems</i>	<i>August 2022 – Present</i>
<ul style="list-style-type: none">• Work with Professor H. V. Jagadish and a team of 6 Instructional Aides to operate an advanced-level Database Management Systems course of 300 students• Teach weekly discussion classes of 30+ students to reinforce conceptual understanding• Host 1-on-1 office hours to answer questions on class material, homework, projects, and exams• Create homework and exam problems and host group review sessions to go over those problems	
CyberCube Analytics	New York, NY
<i>Data Analyst Intern</i>	<i>May 2022 – August 2022</i>
<ul style="list-style-type: none">• Wrote Python algorithms to pull and filter cyber risk data, update the company PostgreSQL database hosted on AWS, and perform queries to match vulnerabilities to client companies• Worked with the new Data Collection team; created and managed AWS S3, ECR, ECS, EventBridge, SQS, and RDS resources that improved localization of data• Migrated AWS resources to a new AWS account and set up new infrastructure using Terraform	

PROJECTS

Michigan Aeronautical Science Association Rocket Project Team	Ann Arbor, MI
<i>Avionics Engineer</i>	<i>September 2021 – June 2022</i>
<ul style="list-style-type: none">• Developed and debugged GUI for the flight data-viewer that led to three-fold increase in data accuracy for the team's new 50,000 ft. liquid bi-propellant rocket, written in Python with PyQt5• Researched an automated unit testing framework with CMake for the flight controller firmware	

FakeBook – Simulated social media database, storing information about users, friendships, photos, events, cities, albums, etc. Implemented in both Oracle SQL*Plus and MongoDB.

Chess – User inputs moves in chess notation to the command line, and program outputs new graphical representations of the board. Rejects and re-prompts user on illegal moves.

Maze Solver – User chooses depth-first or breadth-first search to find a path out of any 3D rectangular maze containing walls, floor tiles, and elevators.

SKILLS

Languages: C++, C, Python, Java, JavaScript, HTML, CSS
Database: Oracle SQL*Plus, PostgreSQL, MySQL, MongoDB, JDBC
AWS: ECR, ECS, EC2, RDS, SQS, S3, EventBridge, Terraform, boto3
Technologies: STL, Docker, Linux, Git, PyQt5, MATLAB, CMake, CUDA, Microsoft Office