

# Kyle Chi

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## Education

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### University of Iowa

*Bachelor of Science in Computer Science, Honors Program*

Iowa City, IA

*Expected May 2026*

- **Relevant Courses:** Calculus I/II, Linear Algebra, Discrete Structures, Data Structures, Software Development, Engineering Statistics
- **Extracurriculars:** Association for Computing Machinery (ACM), University Robotics Team
- **GPA:** 4.24

## Experience

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### Software Engineering Intern | *Python, Pygame, NumPy, pandas, OpenCV, scikit-image* June 2022 – August 2022

*University of Iowa – Driving Safety Research Institute*

*Coralville, IA*

- Collaborated with hardware engineering interns to create and program a robotic car in Python using a Raspberry Pi to showcase at local elementary schools
- Configured the car to manually drive with a console controller using NumPy and Pygame and displayed live inputs and outputs with pandas
- Automated the robotic car to drive between ropes with OpenCV object detection in Python using a Raspberry Pi Camera

### Lifeguard

June 2021 – August 2023

*City of Coralville – Parks and Recreation*

*Coralville, IA*

- Supervised aquatic activity of **20+** patrons routinely and enforced injury prevention under pool safety rules and regulations
- Initiated emergency action plans and cared for injuries per the American Red Cross Lifeguarding guidelines
- CPR and AED certified

## Projects

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### UIGrades | *TypeScript, SqlJS, Node, Express, Tailwind*

December 2023 – January 2024

- Open Source Contributor
- Improved user interface by adding dark mode pagination, modifying component spacings, editing button interactions, and fixing scroll bar bugs
- [uigrades.vercel.app](https://uigrades.vercel.app)

### BeatMaker | *HTML, CSS, JavaScript*

September 2023

- Collaborated in a group of **3** to develop an interactive music web app at HackUIowa '23
- Created a beginner-friendly beat maker with **240+** unique sounds with tracks, live looping, and a piano
- [devpost.com/software/beatmaker-8cvu37](https://devpost.com/software/beatmaker-8cvu37)

## Leadership

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### Lead Trumpet

August 2019 – May 2023

- Conducted jazz band brass warmups for **9+** members and managed supplementary sectional rehearsals
- Organized and led a trumpet group of **5** to the Solo and Ensemble Festival that received a **Superior Rating**
- Principal Trumpet: Iowa All-State Orchestra, Chamber Orchestra

### Science Olympiad Captain

August 2022 – May 2023

- Formed **4** teams of **15** students each and guided them based on varying skills and interests to compete in events
- Created study schedules and provided event resources in preparation for regional and state tournaments
- Organized bi-weekly meetings with the newly formed junior high team that placed **4<sup>th</sup>** in the state

## Technical Skills

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Git, Python, JavaScript, HTML, CSS, React.js, Keras, PyTorch