

# Dylan Khor

dkhor@iastate.edu | 515-715-7665 | <https://www.linkedin.com/in/dylan-khor-a9a329234/> | <https://github.com/dkhor2003>

## EDUCATION

### Iowa State University

Ames, IA

Master of Science, Computer Science (CGPA: 3.96)

AUG 2023 - DEC 2025

Bachelor of Science, Bioinformatics and Computational Biology (CGPA: 3.98)

AUG 2020 - MAY 2023

## WORK EXPERIENCE

### Source Allies

Urbandale, IA

Apprentice Software Engineer

MAY 2025 - AUG 2025

- Collaborated with different teams to enhance employee account management system observability and internal chatbot user experience while adhering to Extreme Programming (XP) methodology.
- Implemented IaC using Terraform, leveraging Azure Service Bus queue system for asynchronous communication between HR tool and other system dependencies, reducing response times.
- Migrated existing Azure applications to OIDC authentication, removing secret rotation dependencies and eliminating security vulnerability risks from credential exposure.
- Engineered multi-session feature for chatbot using Python backend and React frontend, enabling users to maintain concurrent conversation threads simultaneously.
- Expanded chatbot knowledge base by integrating GitHub organization documentations through RAG implementation, improving response accuracy for internal projects and development workflows.

### Iowa State University

Ames, IA

Graduate Research and Teaching Assistant

AUG 2023 - PRESENT

- Advancing adaptive discretization techniques, legged robot safety testing and bridging the Sim2Real gap to enhance real-world applicability and efficiency.
- Leveraged expertise in Python programming and algorithm design to mentor students toward academic success. Recognized with Teaching Excellence Award in Fall 2024.

Voting Machine Research Assistant (VRAC Department)

JUN 2023 - AUG 2023

- Tested the usability of a third-party voting machine with disabled study participants to assess accessibility and user experience.
- Tuned audio pitch using FFmpeg and Rubber Band software to ensure privacy protection.

## PROJECTS

### Portfolio

- Customized and developed a responsive personal portfolio website using React, Vite, and Tailwind CSS.
- Planned integration of 3D visuals using React Three Fiber to enhance interactivity and user experience.

### 3D Modeler

- Designed and developed a computer graphics interface for 3D object modeling using C++ and Vulkan API, enabling seamless deployment in applications like Blender and SolidWorks.

### Checkers-AI

- Developed a Java-based single-player Checkers game with a competitive AI and an intuitive, user-friendly graphical interface.

### Randomized Progressive Deblurring for Image Classification

- Developed a novel training approach for image classification models, enhancing generalization by an average of 24%.

## SKILLS

**Programming Language:** Python, Typescript, Javascript, Java, C++, SQL, Bash

**Web Development:** HTML, CSS, Tailwind CSS, React

**Cloud & Infrastructure:** Azure, AWS, Terraform

**Tools:** Git, Docker