

Dylan Khor

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EDUCATION

Iowa State University	Ames, IA
<i>Master of Science in Computer Science (CGPA: 3.96)</i>	<i>Aug. 2023 – Dec. 2025</i>
– Thesis: “Sampling-based Optimized Adaptive Discretization and its Applications in Robotics”	
Iowa State University	Ames, IA
<i>Bachelor of Science in Bioinformatics and Computational Biology (CGPA: 3.98)</i>	<i>Aug. 2020 – May 2023</i>

EXPERIENCE

Apprentice Software Engineer	May 2025 – Aug. 2025
<i>Source Allies</i>	<i>Urbandale, IA</i>
– Collaborated cross-functionally to enhance the account management system’s observability and internal chatbot user experience following Extreme Programming (XP) principles.	
– Deployed IaC using Terraform, integrating Azure Functions and Service Bus for event-driven, asynchronous communication between HR tool and dependent systems, reducing response times.	
– Migrated Azure applications to OIDC authentication, removing secret rotation dependencies and mitigating credential exposure risks.	
– Built multi-session chatbot functionality with FastAPI (Python) and React TypeScript, enabling parallel, context-aware conversations for HR and developer workflows.	
– Enhanced RAG pipeline with GitHub documentation integration and Cohere Rerank 3.5 via Amazon Bedrock, improving response accuracy by 10%.	
Graduate Research and Teaching Assistant	Aug. 2023 – Present
<i>Iowa State University</i>	<i>Ames, IA</i>
– Conducting research on adaptive discretization and safety testing techniques in robotics to improve real-world applicability and efficiency.	
– Applied expertise in Python programming, algorithm design, and machine learning to mentor students toward academic success.	
– Recognized with the Teaching Excellence Award (Fall 2024) for outstanding performance.	
Voting Machine Research Assistant	Jun. 2023 – Aug. 2023
<i>Iowa State University</i>	<i>Ames, IA</i>
– Tested usability of a third-party voting machine with disabled study participants to assess accessibility and user experience.	
– Used FFmpeg and Rubber Band software to tune audio pitch for privacy protection.	

PROJECTS

Portfolio Website <i>React, Vite, Tailwind CSS, Three.js</i>	
– Developed a personal portfolio optimized for accessibility and responsiveness across devices.	
– Integrated interactive 3D visuals with React Three Fiber for an engaging user experience.	
3D Modeler <i>C++, Vulkan</i>	
– Built a computer graphics interface for 3D object modeling, compatible with tools like Blender and SolidWorks.	
Checkers-AI <i>Java</i>	
– Created a single-player Checkers game featuring an AI opponent and intuitive graphical interface.	
Randomized Progressive Deblurring for Image Classification <i>Python, PyTorch, OpenCV</i>	
– Proposed a new training approach for image classification models, achieving a 24% average improvement in generalization.	

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C++, HTML/CSS, SQL, Bash
Frameworks & Libraries: React, Tailwind CSS, Node.js, Jest, FastAPI, PyTorch, OpenCV, MuJoCo
Cloud & Infrastructure: Azure (Fundamentals Certified), AWS, Terraform
Developer Tools: Git, Docker, Linux, Postman, VS Code